



DigitalPersona® SDK for Linux®

DigitalPersona 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 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 Software Development Kit (SDK) for Linux enables integrators and developers to quickly add the power of fingerprint-based authentication to their Linux applications. HID Global 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 gain 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. Detailed documentation and workflow diagrams 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 MINEX-certified 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 SDK for Linux fully embraces image, template and compression standards. In addition, the DigitalPersona FingerJet matching engine now features a MINEX-certified extractor and matcher. This new direction 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

SECURITY AND PRIVACY

The DigitalPersona 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 SDK for Linux supports C, C++, and Java language interfaces. The flexibility of the DigitalPersona SDK for Linux enables developers to embed fingerprint-based authentication in a wide variety of application front ends.

SPECIFICATIONS

Product Name	DigitalPersona® SDK for Linux®
Programming Interface	C, C++, Java® and JavaPOS
User Interface	Developer creates own custom user interface
Fingerprint Registration	Developer creates own custom application
Fingerprint Readers and Modules	<ul style="list-style-type: none"> • DigitalPersona 5000 Series • DigitalPersona 4500 Series • EikonTouch 510 • EikonTouch 710 • Nomad 30 Module
Template Interoperability	Template format compatible with: <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • DigitalPersona fingerprint image format • ISO 19794-4:2005, fingerprint image standard • ANSI/INCITS 381-2004, finger image-based data interchange format
Biometric Engine	FingerJet <ul style="list-style-type: none"> • MINEX certified extraction and matching engine • 1:1, 1:n
Image Compression/Quality	WSQ/NFIQ – NIST algorithm included; support for Aware library available
Security	The fingerprint reader sets up an encrypted link with the driver to securely transfer the image (only DigitalPersona 4500)
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
SYSTEM REQUIREMENTS	
Operating System	Support for all modern Linux versions with kernel 3.0 or later (32-bit/64-bit)
Hardware	CPU: Intel x86, x64, ARM EABI, ARM HF

Data subject to change without notice.



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