



# DigitalPersona<sup>®</sup> SDK for Android<sup>®</sup>

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 Android enables integrators and developers to quickly add fingerprint-based authentication to their Android 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 Android applications. Sample code is included to help programmers quickly understand how to capture a fingerprint, extract a fingerprint template and match fingerprint templates. Detailed documentation enables fast integration of secure 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 Android fully embraces image, template, and compression standards. In addition, the DigitalPersona FingerJet matching engine features a MINEX-certified 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
- 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 Android supports the Java language interface. The flexibility of the DigitalPersona SDK for Android enables developers to embed fingerprint-based authentication in a wide variety of Android applications.

## SPECIFICATIONS

<b>Product Name</b>	DigitalPersona® SDK for Android®
<b>Programming Interface</b>	Java®
<b>User Interface</b>	Developer creates own custom user interface
<b>Fingerprint Registration</b>	Developer creates own custom application
<b>Fingerprint Readers and Modules</b>	<ul style="list-style-type: none"> <li>• DigitalPersona 5000 Series</li> <li>• DigitalPersona 4500</li> <li>• EikonTouch 510</li> <li>• EikonTouch 710</li> <li>• Nomad 30 Module</li> </ul>
<b>Template Interoperability</b>	Template format compatible with: <ul style="list-style-type: none"> <li>• One Touch® for Windows® SDK, all previous editions</li> <li>• One Touch for Linux® SDK, all distributions</li> <li>• One Touch I.D. SDK (fast identification)</li> <li>• DigitalPersona Gold and Gold CE SDKs</li> <li>• ISO/IEC 19794-2:2005, biometric data interchange format</li> <li>• ANSI/INCITS 378-2004 finger minutiae data format</li> </ul>
<b>Fingerprint Image</b>	<ul style="list-style-type: none"> <li>• DigitalPersona fingerprint image format</li> <li>• ISO 19794-4:2005, fingerprint image standard</li> <li>• ANSI/INCITS 381-2004, finger image-based data interchange format</li> </ul>
<b>Biometric Engine</b>	FingerJet <ul style="list-style-type: none"> <li>• MINEX certified extraction and matching engine</li> <li>• 1:1, 1:n</li> </ul>
<b>Image Compression/Quality</b>	WSQ/NFIQ – NIST algorithm included; support for Aware library available
<b>Security</b>	The fingerprint reader sets up an encrypted link with the driver to securely transfer the image (only DigitalPersona 4500)
<b>Database</b>	Developer may use a database of their choice
<b>Application Deployment</b>	FingerJet Fingerprint Recognition Software (Engine Runtime Libraries) is supplied with the SDK and is freely distributable. DigitalPersona hardware is not included with SDK
<b>SYSTEM REQUIREMENTS</b>	
<b>Operating System</b>	Android versions supported: 5, 6, 7 and 8
<b>Hardware</b>	ARM EABI, ARM V8, Intel x86
<b>Development System</b>	Linux and Windows

Data subject to change without notice.



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