

DigitalPersona® SDK

Gold and Gold CE

DigitalPersona SDKs provide the tools for developers to create a new generation of commercial and internal use applications delivering the convenience, security and biometric assurance of fingerprint authentication. From time and attendance, process control, point of sale to business applications, the DigitalPersona SDKs allow developers to quickly integrate fingerprint authentication into their designs.

Easy, fast way to integrate biometrics into applications for commercial and internal use to:

- **Authenticate users reliably and conveniently.**
- **Simplify and enhance security.**
- **Streamline business processes.**
- **Address compliancy concerns.**
- **Reduce password management costs.**

DigitalPersona Gold Software Development Kits (SDK) enable integrators and developers to quickly add the power of fingerprint-based authentication to their Microsoft® Windows-based applications.

Digital Persona offers two Gold SDKs from which to choose. Developers select the SDK best fitting their computing platform and the type of application.

Easy to Use Toolkits

In only a few hours, developers easily integrate fingerprint authentication within their application and have access to a full range of authentication services for their PC or PDA solution. Sample code is included to illustrate the capturing of a fingerprint, extracting a fingerprint template and matching fingerprint templates.

Programming Options

DigitalPersona Gold SDKs support several development environments and interfaces including eMbedded Visual C++, Visual Studio C++ and Java.

The Gold SDK provides a proprietary database or developers may use their preferred database.

The flexibility of the Gold SDK enables developers to embed fingerprint-based authentication in a limitless number of different application front ends.

Fingerprint Recognition Engine

The DigitalPersona Fingerprint Recognition Engine provides the basic functionalities

of fingerprint feature extraction, matching and registration. The DigitalPersona Engine combined with DigitalPersona U.are.U® readers, offers the industry's most accurate fingerprint recognition coupled with fast execution time.

Security and Privacy

Digital Persona has given much consideration to security and user privacy issues. Fingerprint data is encrypted offering protection from tampering and maintaining user's privacy.

Supported Fingerprint Readers

DigitalPersona Gold SDK supports the standalone U.are.U Reader, the integrated U.are.U Fingerprint Keyboard, and the U.are.U Module designed for integration with OEM equipment. The Gold CE SDK supports the U.are.U 4000B Reader and the U.are.U 4000B Module.

Proven Technology

Digital Persona is the trusted leader in biometrics. Digital Persona's proven fingerprint authentication technology can be found in custom applications around the world. Examples include banking applications in Mexico, point of sale terminals in US retail chains and restaurants, and health care industries.



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	Gold SDK	Gold CE SDK
System Requirements		
Operating System	Windows XP, 2000, NT, Me, 98, Server 2003 and 2000	Windows CE .NET 4.0
Hardware	Pentium-class processor (or better), CD-ROM drive, USB Port	XScale, x86, USB Port
Development Environment		
eMbedded Visual Studio C++	-	Yes
Visual Studio C++	Yes	-
Java	Yes	-
Programming Interface	"C" interface & Java wrappers	"C" interface
User Interface	Developer creates own custom user interface	Developer creates own custom user interface
Fingerprint Registration	Developer creates own custom application	Developer creates own custom application
Database	Proprietary database provided or developer may use other database	-
Fingerprint Readers	Supports DigitalPersona U.are.U Reader, U.are.U Module and U.are.U Fingerprint Keyboard	Supports DigitalPersona U.are.U 4000B Reader and U.are.U 4000B Module
Security	<ul style="list-style-type: none"> • Fingerprint templates are encrypted by the engine. • The fingerprint reader sets up a challenge-response encrypted link with the driver to securely transfer the image. 	<ul style="list-style-type: none"> • Fingerprint templates are encrypted by the engine.
Performance	Tested by third parties, the Gold SDK offers highly accurate recognition and fast execution time. Please request a white paper for details.	The Gold CE SDK offers highly accurate recognition and fast execution time. Please request a white paper for details.
Application Deployment	DigitalPersona Gold Fingerprint Recognition Software required and available separately. U.are.U Reader not included with SDK purchase.	DigitalPersona Gold CE Fingerprint Recognition Software required and available separately. U.are.U Reader not included with SDK purchase.



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