

# DigitalPersona® SDK

Gold and Gold CE

*DigitalPersona SDKs provide the 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, process control, point of sale to business applications, the DigitalPersona SDKs allow developers to quickly integrate fingerprint authentication into their software and hardware designs.*

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

- **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.

DigitalPersona 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 Visual Studio C++ and Java. The Gold CE SDK also supports eMbedded Visual C++.

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, registration and matching. 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

DigitalPersona 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

The DigitalPersona Gold and Gold CE SDKs support the standalone U.are.U 4000B Reader and the U.are.U 4000B Module designed for integration with OEM equipment.

In addition, the DigitalPersona Gold SDK supports the ergonomic U.are.U Fingerprint Keyboard which includes an embedded U.are.U 4000B Reader.

### Proven Technology

DigitalPersona is the trusted leader in biometrics. DigitalPersona'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 healthcare industries.



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	Gold SDK	Gold CE SDK
<b>System Requirements</b>		
Operating System	Windows Vista, XP Pro, 2000, Server 2003 and 2000	Windows CE .NET 4.2, 5.0, 6.0
Hardware	Pentium-class processor (or better), CD-ROM drive, USB Port	XScale (ARM V4, ARM V4I, ARM 9), x86, SH4, USB Port
<b>Development Environment</b>		
eMbedded Visual Studio C++	-	Yes
Visual Studio C++	Yes	-
Java	Yes	-
<b>Programming Interface</b>	"C" interface & Java wrappers	"C" interface
<b>User Interface</b>	Developer creates own custom user interface.	Developer creates own custom user interface.
<b>Fingerprint Registration</b>	Developer creates own custom application.	Developer creates own custom application.
<b>Database</b>	Proprietary database provided or developer may use their own database.	-
<b>Fingerprint Readers</b>	Supports DigitalPersona U.are.U 4000B Reader, U.are.U 4000B Module and U.are.U Fingerprint Keyboard	Supports DigitalPersona U.are.U 4000B Reader and U.are.U 4000B Module
<b>Security</b>	<ul style="list-style-type: none"> <li>• Fingerprint templates are encrypted by the engine.</li> <li>• The fingerprint reader sets up a challenge-response encrypted link with the driver to securely transfer the image.</li> </ul>	<ul style="list-style-type: none"> <li>• Fingerprint templates are encrypted by the engine.</li> </ul>
<b>Performance</b>	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.
<b>Application Deployment</b>	DigitalPersona Gold Fingerprint Recognition Software required and available separately. U.are.U Readers are not included with SDK purchase.	DigitalPersona Gold CE Fingerprint Recognition Software required and available separately. U.are.U Readers are not included with SDK purchase.

