DigitalPersona® SDK

One Touch® for Windows

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.**

The DigitalPersona One Touch for Windows Software Development Kit (SDK) enables integrators and developers to quickly add the power of fingerprint-based authentication to their Microsoft® Windows-based applications. DigitalPersona offers powerful SDKs which feature the highest performing and most accurate fingerprint authentication algorithms in the industry.

Easy to Use Toolkits

In only a few hours, developers easily integrate fingerprint authentication into their application and have access to a full range of authentication services for their PC, embedded computer, POS terminal or server solution. Sample code is included to illustrate the capturing of a fingerprint, extracting a fingerprint template and matching fingerprint templates. Simple architecture diagrams, programming workflow illustrations and detailed documentation enable fast integration of powerful fingerprint biometrics into customer-friendly applications.

Programming Options

The One Touch for Windows SDK supports C, C^{++}, $C^{\#}$, Java, .NET and ActiveX/COM languages. In addition, User Interface (UI) features, such as enrollment and customizable verification dialog boxes, eliminate having to create these modules.

Fingerprint Recognition Engine

The DigitalPersona® Fingerprint Recognition Engine provides the basic functionalities of fingerprint feature extraction, enrollment and matching. The DigitalPersona Engine combined with DigitalPersona U.are.U® Fingerprint Readers, offers the industry's most accurate fingerprint recognition, lowest false accept and false reject rates (FAR/FRR) coupled with fast execution time.

Security and Privacy

DigitalPersona has given much consideration to security and user privacy issues. Fingerprint data is encrypted everywhere along the data path offering protection from tampering and maintaining the user's privacy.

Supported Fingerprint Readers

The One Touch for Windows SDK supports the standalone DigitalPersona U.are.U 4000B and 4500 Readers, the U.are.U 4000B and 4500 Modules designed for integration with OEM equipment and the ergonomic U.are.U Fingerprint Keyboard.
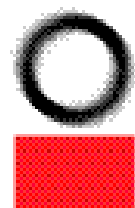
Proven Technology

DigitalPersona is the leading provider of fingerprint authentication solutions with the world's greatest number of biometrically-enabled developer applications. DigitalPersona's award-winning technology is used worldwide by over 95 million people in the most diverse and challenging environments.

DigitalPersona SDKs and proven fingerprint authentication technology can be found in custom applications including banking, healthcare solutions and point-of-sale terminals in retail chains and restaurants.

digitalPersona.

One Touch for Windows

System Requirements

Operating System	Microsoft Windows XP (32/64-bit), Microsoft Windows XP Embedded (32-bit), Microsoft Windows Vista (32/64-bit), Microsoft Server 2003/2008 (32/64-bit) Citrix Metaframe Presentation Server using the following clients: • Program Neighborhood • Program Neighborhood Agent • Web Client • Windows Terminal Services including Remote Desktop Connection
Hardware	Pentium-class processor (or better), CD-ROM drive, USB Port

Development Environment

Visual Studio 2005, Visual Studio 6.0

Programming Languages

C, C^{++}, $C^{\#}$, Java, VB .NET and ActiveX/COM

User Interface

Customizable user interface.

Fingerprint Registration

Developer creates own custom application.

Database

Developer may use a database of their choice.

Fingerprint Readers

DigitalPersona U.are.U 4000B and 4500 Readers, U.are.U 4000B and 4500 Modules, U.are.U Fingerprint Keyboard

Template Interoperability

Template format compatible with:
• DigitalPersona One Touch I.D. SDK (fast identification)
• DigitalPersona One Touch for Linux SDK
• DigitalPersona Gold and Gold CE SDKs

Security

• Fingerprint templates are encrypted by the engine.
• The fingerprint reader sets up an encrypted link with the driver to securely transfer the image.

Performance

Tested by third parties, the SDK offers highly accurate recognition and fast execution time. Please request a white paper for detailed results.

Application Deployment

DigitalPersona Fingerprint Recognition Software (Runtime Engine) are supplied with the SDK and freely distributable. U.are.U hardware is not included with SDK purchase.

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