



U.are.U[®] SDK for Windows[®]

U.are.U 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, U.are.U SDKs allow developers to quickly integrate fingerprint authentication into their software and hardware designs.

USE CROSSMATCH FINGERPRINT BIOMETRICS TO:

- Authenticate users reliably and conveniently
- Prevent fraud
- Simplify and enhance security
- Streamline business processes
- Address compliancy

PRODUCT DESCRIPTION

The U.are.U Software Development Kit (SDK) for Windows enables integrators and developers to quickly add the power of fingerprint-based authentication to their Microsoft[®] Windows-based applications. Crossmatch[™] 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 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.

FINGERPRINT RECOGNITION ENGINE

The FingerJet[™] biometric matching engine provides MINEX-certified feature extraction, as well as enrollment. The FingerJet matching engine, combined with U.are.U Fingerprint Readers, offers accurate fingerprint recognition, low false accept and false reject rates (FAR/FRR) coupled with fast execution time.

STANDARDS SUPPORT

The U.are.U SDK for Windows fully embraces image, template and compression standards. In addition, the FingerJet matching engine features a MINEX-certified extractor. 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.

ABOUT CROSSMATCH

Crossmatch helps organizations solve their identity management challenges through biometrics. Our enrollment and authentication solutions are trusted to create, validate and manage identities for a wide range of government, law enforcement, financial institution, retail and commercial applications. Our solutions are designed using proven biometric technologies, flexible enrollment and strong multi-factor authentication software, and deep industry expertise. We offer an experienced professional services capability to assess, design, implement and optimize our identity management solutions for a customer's individual challenges. Our products and solutions are utilized by over 200 million people in more than 80 countries.

Learn more at www.crossmatch.com

SPECIFICATIONS

Development Environment	Visual Studio® 2008, 2010
Programming Interface	C, C++, C#, Java®, VB .NET, Active X®/COM and JPOS/OPOS
User Interface	Customizable user interface
Fingerprint Registration	Developer creates own custom application
Fingerprint Readers	<ul style="list-style-type: none"> • U.are.U 4500 Series • U.are.U 5000 Series • U.are.U Fingerprint Keyboard
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 Interchange Format
Biometric Engine	FingerJet <ul style="list-style-type: none"> • MINEX certified extraction engine
Security	<ul style="list-style-type: none"> • Fingerprint templates are encrypted by the engine • The fingerprint reader sets up an encrypted link with the driver to securely transfer the image
Database	Developer may use a database of their choice
Application Deployment	FingerJet Fingerprint Recognition Software (Runtime Engine) is supplied with the SDK and freely distributable. U.are.U hardware is not included with SDK

SYSTEM REQUIREMENTS

Operating System	Windows XP/Vista/Win 7 (32/64), XP Embedded (32-bit), Windows Server® 2003/2008 (32/64-bit), Windows RDP, Citrix/ Terminal Services (local driver), .NET and Java Citrix® XenApp Server using the following clients: <ul style="list-style-type: none"> • XenApp Services Site • Web client • Windows Terminal Services including Remote Desktop Connection
Hardware	Pentium®-class processor (or better), CD-ROM drive, USB Port
<i>Data subject to change without notice</i>	

SUPPORTED FINGERPRINT READERS

- U.are.U 4500 Series
- U.are.U 5000 Series
- U.are.U Fingerprint Keyboard

SECURITY AND PRIVACY

- Crossmatch 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.

PROGRAMMING OPTIONS

- The U.are.U SDK for Windows supports C, C++, C#, Java, .NET, ActiveX/COM and JPOS/OPOS language interfaces. In addition, User Interface (UI) features, such as enrollment and customizable verification dialog boxes, eliminate having to create these modules.

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