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fulcrum biometrics

M.O.S.T. Toolz®

Biometric Series

For Capturing and Writing Interoperable Fingerprint Data to a Smart Card

M.O.S.T. Toolz Fingerprint Edition combines the development of a M.O.S.T. Card® file system with the power to capture a fingerprint image, compress the image with the WSQ algorithm, and transform the image into an ISO 19794-2 or ANSI 378 template. The software enables developers to select a best candidate and write that file with the CBEFF interoperable header to a smart card for use in a biometrically enhanced card ecosystem. The tool kit enables the creation of a credential system that meets ICAO and ISO/IEC standards for both smart cards and biometrics.

The Fingerprint Enhanced M.O.S.T. Toolz™ Kit Includes:

- 17 M.O.S.T. Cards® with your choice of card variety packs
- Single-digit optical fingerprint scanner with contact smart card reader
- Development source code with powerful demonstration software programs
- Winplex® middleware with fingerprint functions
- Programming examples in C# (.NET framework) and C++
- PC/SC Reader Configuration Utility
- Support for Windows 7 and 8

Microprocessor Smart Card Development Kit

Part Number	Type	Scanner/Reader	Microprocessor Card Types
9700010	Complete Kit	Single-digit optical fingerprint scanner with contact smart card reader	Contact (ISO 7816)
9700013	Upgrade to Contactless M.O.S.T. Toolz	Single-digit optical fingerprint scanner (no card reader)	Contactless / RFID (ISO 14443-A)

Full Support of Biometric Functions Built to ANSI378, ICAO9303, NISTIR6529-A, ISO/IEC19794-2, and ISO/IEC19794-4 Standards

- Extraction of raw fingerprint image
- Creation of ANSI 378 and MINEX compliant templates
- Candidate grading with minutia points
- WSQ compression
- CBEFF header creation through supplied program and source code examples
- Writing the fingerprint data to the smart card using the Winplex Fingerprint Demo Application and source code examples
- Verification against a fingerprint file in the card (validation)

Rapid Smart Card Application Development

M.O.S.T. Card Configuration Utility™simplifies the creation of a card file structure, or logical data structure, with direct calls to M.O.S.T. Card®. The utility fully supports PC/SC and Winplex® function calls.

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Microprocessor Smart Card Development Kit
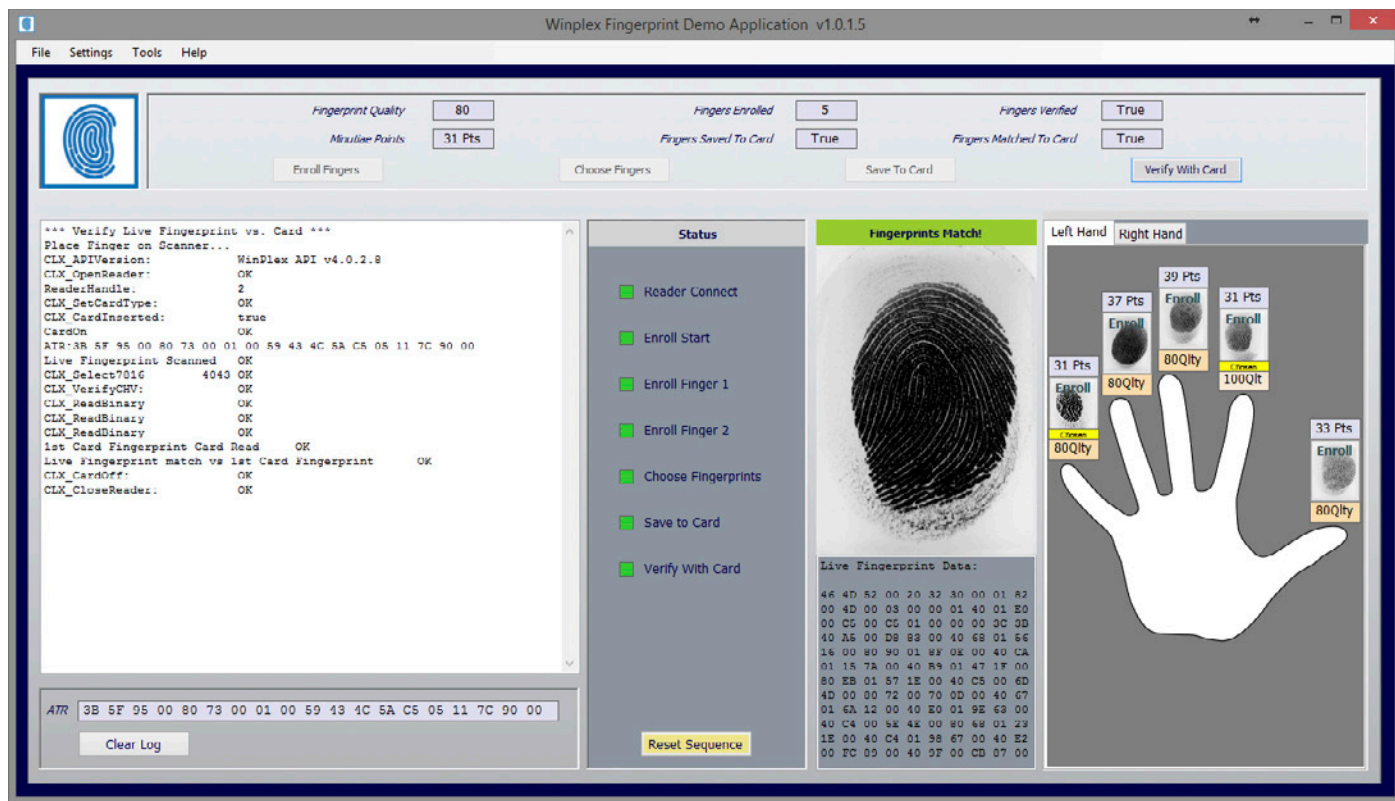
Full Support for M.O.S.T. Card® C Series Microprocessor Smart Cards

- Highest security encryption and authentication with AES, HMAC, and SHA-256 algorithms
- Advanced file support: Linear, Cyclical and Purse Files
- Global Password File and Administrator Password File support
- Auto key loading utility
- Export card file maps to CSV or Microsoft Excel files for key ceremony and secure backups

Secure Lifecycle Management

The transport key mechanisms and forensic card info commands ensure a secure lifecycle management system for the smart card ecosystem. The commands relay the state of the cards throughout their entire lifecycles.

Powerful Middleware for Advanced Card Reader Functions

In addition to PC/SC support, the powerful Winplex® API Middleware simplifies high level commands for advanced smart card reader functions not supported by PC/SC. This powerful API has over 160 functions, including those for biometric capture, matching, storage, and those for specific readers, such as magnetic stripe reading, card latching, and LED control. The middleware includes programming examples in C# (.NET framework).

Seamless Connectivity to Card Encoding Engine™ Card Personalization Software

Transfer the card file structure from M.O.S.T. Toolz to Card Encoding Engine™ for instant chip card encoding and printing of enrollment information without programming, scripts or custom APIs.

Ships with FastCheck™ for Android

Quickly validate an enrolled ID Credential with an NFC-capable Android phone or tablet.

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