

## U.are.U<sup>®</sup> SDK v3.2.0 for Windows • Product Release Note

### New Features

*Presentation Attack Detection* - This release adds support for the optional Presentation Attack Detection (PAD or also known as Live Finger Detection) feature for the U.are.U 5300 module and reader, when installed without the Authentication Service. The PAD algorithm is turned off by default.

The PAD feature is a software-based PAD algorithm capable of distinguishing between live and PA samples. To detect and deflect presentation attacks, we have developed novel methods to extract liveness information directly from the fingerprint images themselves.

These liveness methods are completely software based, without the need to integrate expensive and bulky hardware-based solutions. Image processing and pattern recognition algorithms exploit characteristics of live and PA images, including derived features based on perspiration, frequency-domain information, etc.

*Streaming mode* – is supported for the U.are.U 5xxx, Nomad 30 Module and Nomad 30 Pocket fingerprint readers. Streaming mode is not supported for the U.are.U 4500 and TouchChip devices.

### Software components

This release of the U.are.U SDK ships with the following components.

- Recognition Engine version 6.0.1 and 7.0.0
- UareU 4500 Driver 4.0.0.207
- 5X low-level capture library v5.0.1.34
- 7X low-level capture library v5.0.1.34
- TouchChip Driver 1.9.2.204
- Crossmatch SDK EULA

### APIs supported

- C++
- .NET
- ActiveX
- Java
- Javascript/Web

### Fingerprint devices supported

- U.are.U 4500 and 4500 UID
- U.are.U 5100 and 5160
- 5200 Module (P/N 50024-001-100 and 50024-001-101)
- 5300 Module (P/N 50018-001-100 and 50018-001-101)
- 5300 Reader (P/N 50019-001-100 and 50019-001-101)
- Eikon Touch 510 and 710
- Nomad 30 Module and Nomad 30 Pocket Reader

## Requirements

- Microsoft Windows 7 (32/64-bit) or Windows 8.1 (32/64-bit) or Windows 10 (32/64-bit)
- Supported Browsers: Internet Explorer, Microsoft Edge, Firefox, Chrome
- JRE or JDK (1.7 or 1.8) - To run samples your applications if developed in Java
- .NET Framework v4.5 or newer
- This SDK and the associated RTE cannot be installed on the same computer.

## Compatibility

This release is compatible with the following Crossmatch products.

- DigitalPersona v2.3 and v3.0

Fingerprint templates produced by this release of U.are.U SDK for Windows are also compatible with templates from the following CrossmatchSDKs.

- Gold SDK
- Gold CE SDK
- One Touch for Windows SDK, all previous versions
- One Touch for Linux SDK, all distributions

Note: Platinum SDK registration templates must be converted to a compatible format to work with U.are.U SDK for Windows v3.2.0 See the Developer Guide for instructions on performing this conversion.

This release is not compatible with any other Crossmatch product.

## Known Issues

For a list of known issues in this version, see the readme.txt file in the root folder of the product package.

## Upgrading

You should uninstall any previous versions of the U.are.U SDK before installing this version.

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