

IDGo 800 - Middleware and SDK for Mobile Devices

Brand: Gemalto
Product Code: SMAGIDGO800



Short Description

IDGo 800 for Mobiles is a cryptographic middleware that supports the Gemalto IDPrime cards and Secure Elements on Mobile platforms: Contact and contactless smart cards, MicroSD cards, UICC-SIM cards and embedded Secure Elements (eSE).

Description

IDGo 800 for Mobiles is a cryptographic middleware that supports the Gemalto IDPrime cards and Secure Elements on Mobile platforms: Contact and contactless smart cards, MicroSD cards, UICC-SIM cards and embedded Secure Elements (eSE).

The architecture of the IDGo 800 middleware includes several APIs such as PKI, GUI, PC-SC and Secure Storage. Those APIs are based on drivers controlling a wide diversity of readers: USB, Bluetooth, NFC, MicroSD, OMAPI.

Thanks to IDGo 800 for Mobiles, partners can easily implement the highest possible security level in their Mobile applications: Strong Authentication, data protection, digital signature, secure web access, VPN, etc.

Therefore they can now address a large customer base that needs to protect their data and networks with the well-established PKI technology.

Banks, governments, insurances, universities, hospitals, Certificate Authorities are examples of such organizations that have already deployed those technologies on their PC platforms and now need to migrate on smart phones and tablets.

The IDGo 800 and SAC middleware is also available on Windows, Linux and MacOS operating systems.

Features and Benefits

- Easy integration in the main application thanks to the IDGo 800 for Mobiles Software Development Kit (SDK)
- Three test applications provided in the SDK with their source code
- Several configuration options and GUI screens that can be controlled directly by the main application
- IDGo 800 for Mobiles takes care of the Secure Element detection, PIN entry and keys management.

IDGo 800 Mobile

- Cryptographic middleware allowing 3rd party applications to easily support PKI, OTP and PC-SC technologies
- Provides access to Gemalto IDPrime MD smart cards and USB tokens
- Includes drivers for various communication channels depending on the hardware platform: USB, NFC and specific card readers
- Supports the most popular USB readers of the market, including PIN pads
- Easy integration in the main application thanks to the Software Development Kit (SDK)
- OTP Display application included in the SDK, as well as test tools and sample code
- Separate .apk application on Android, that can be delivered and installed separately from the main application
- PIN entry, change PIN, unblock PIN functions managed by the middleware
- Automatic detection of the secure element and associated reader
- Option to encrypt the NFC communication
- Support of Java Cryptographic Extension (JCE) on Android, and OpenSSL and PKCS#11 standards on iOS

Technical Specifications

Characteristics

Operating Systems

Android

- Android 4.x, 5.x, 6.0

iOS

- iOS 8.x, 9.x

Supported applets

PKI: IDPrime .NET

- All versions except IDPrime .NET 5500 bio

PKI: IDPrime MD

- IDPrime MD 830 and 840
- IDPrime MD 3810 and 3840
- IDPrime MD 8840 MicroSD cards

PKI: CAC-PIV

- Read mode

OTP

- IDPrime OTP-OATH v2.x

Secure Element form factors

ID-1 size contact card

(via a reader)

ID-000 size contact card

(via a USB token)

- IDPrime .NET card

- IDPrime MD 8xx card
- IDPrime PIV card and PIV-CAC compliant cards
- T=0 in USB mode

ID-1 contactless or dual card (via NFC)

- IDPrime MD 38xx card

UICC-SIM card

- IDPrime PIV and MD applets

Secure MicroSD card

- SafeNet Prime MD 8840 and Core 8030 MicroSD cards

Other form factors supported

- Embedded Secure Element (eSE)
- Software smart card

Interface with the main application

PKI API

- JCE (Java Cryptographic Extension): Android only
- Minidriver-like API

APDU API

- Subset of the PC-SC standard

Other APIs

- OTP
- Graphical User Interface (GUI)
- Configuration options
- Secure Storage

Communication channel with the Secure Element or reader

USB OTG (Android only)

- USB-CCID readers and tokens
- PINpad readers

NFC (Android only)

- ISO 14443 -1 to -4

Bluetooth Smart (or BLE)

- IDBridge CT1100 Badge Holder

- IDBridge K1100 token
- Ezio Bluetooth PINpad reader

User interface functionsPIN management

- Change PIN
- Unblock PIN by Challenge-Response

Configuration set-up

- Secure Element selection
- Keyboard type
- Language

Other security features

- Secure PIN pad
- Secure Bluetooth Smart
- Secure Storage of critical data
- Signature-based anti-malware mechanism

Compatibility

Solution type	Owner	Solution name
IDGo 800 Mobile SDK tools	Gemalto	OTP Tool

		PKI Tool Test Tool Included in the SDK
--	--	--

How to get IDGo 800 Middleware and SDK

The integration of the IDGo 800 middleware in a commercial application is subject to the signature of an OEM License Agreement and the ordering of the SDK licence, that includes a full year assistance to the development.

Please contact your SMARTJAC representative info@smartjac.com