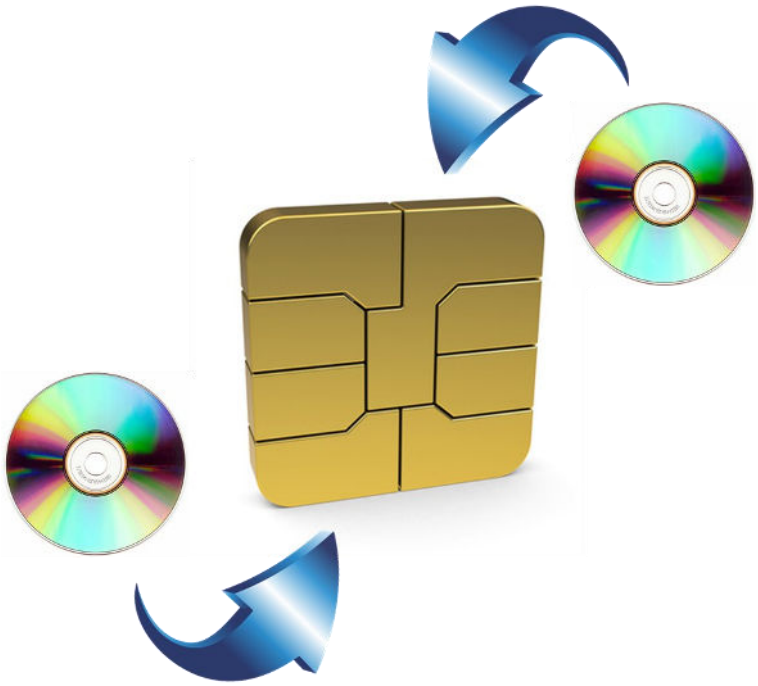
UNITED ACCESS
anytime-anywhere

United Access Basic Applet



The United Access Basic Applet immediately turns a Java Card platform product into a fully operational smart card.

United Access Basic Applet

The purpose of the United Access Basic Applet (UA BA) is to enable the user to work immediately with a JavaCard on an ISO 7816-4 level. The UA BA applet provides a set of ISO7816-4 APDU´s for basic functionalities like symmetric challenge response authentication (based on DES/tDES algorithm), storage of transparent data and PIN verification.

Features

The UA BA offers standard smart card commands in accordance to ISO 7816-4:

- verify & change & unblock PIN
- generate & import & derive key
- get/set derivation Counter
- get/put data
- update/read binary
- get challenge
- external/internal authenticate
- get KVV

Depending on the Access Conditions (AC), defined for each single command (represented by ist instruction byte [INS]), and the internal state machine (e.g. authentication successfully done or not) a command can be performed or not.

Application

- Storage of personal data - e.g. medical data or biometric data
- Storage of application parameters
- User authetication

Technical data

The UA BA application is implemented as an applet with the AID f011111111 (may be changed due to customer requirements). This applet may be instantiated as often as needed to create different storage areas with individual access rights and conditions.

The single applet instances implementing different data storage areas and can be used individually - for example:

- f01111111101 for picture (15 kByte)
- f01111111102 for fingerprint 1 (10 kByte)
- f01111111103 for fingerprint 2 (10 kByte)
- f01111111104 for arbitrary data 1 (10 kByte)
- f01111111105 for arbitrary data 2 (5 kByte)

Default communication: T=1, up to 115 kbaud; the contactless interface (if applicable) is ISO 14443 Type A and goes up to 424 kbit/s.
According to specific customer requirements and in accordance to the boundaries of the underlying chip type (e.g. Infineon jTOP or NXP JCOP) the communication settings can be configured individually (e.g. ISO 14443

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UNITED ACCESS GmbH
A-3430 Tulln, Technopark 1

Phone +43-2272-64123
Fax +43-2272-65124

office@united-access.com
www.united-access.com