

ISO/IEC TS 23465-2:2023-02 (E)

Card and security devices for personal identification - Programming interface for security devices - Part 2: API definition

Contents		Page
Foreword.....		v
Introduction.....		vi
1	Scope.....	1
2	Normative references.....	1
3	Terms and definitions.....	1
4	Symbols and abbreviated terms.....	2
5	Graduated APIs for security devices.....	3
5.1	General.....	3
5.2	Secure credential storage.....	3
5.3	Security device supporting cryptography.....	4
5.4	Security device supporting secure application.....	4
6	API pre-requisite.....	4
6.1	Description language.....	4
6.2	Format of an API function.....	4
6.2.1	General.....	4
6.2.2	Addressing means.....	5
6.2.3	Parameters.....	5
6.2.4	Return values.....	5
6.2.5	Callback functionality.....	5
7	API error handling.....	6
7.1	General.....	6
7.2	Exceptions.....	6
8	Security device identification.....	6
8.1	Security device attributes.....	6
8.2	Security device entry.....	8
9	Data model definition.....	8
9.1	General.....	8
9.2	Attributes and types.....	9
9.3	Methods.....	9
9.4	References/instances.....	9
10	API definition.....	10
10.1	General.....	10
10.2	List of defined API functions.....	10
10.3	API function for managing, addressing and identifying security devices.....	11
10.3.1	Method <code>isolec23465_getSecurityDeviceList</code>	11
10.3.2	Method <code>isolec23465_connectSecurityDevice</code> — Connection to the security device.....	12
10.4	API function derived from data model.....	12
10.4.1	Basic Class Object.....	12
10.4.2	Class <code>SecurityDeviceApplication</code>	14
10.4.3	Class <code>RootApplication</code>	15
10.4.4	Class <code>SensitiveContainer</code>	17
10.4.5	Class <code>DataContainer</code>	19
10.4.6	Class <code>CertificateContainer</code>	24
10.4.7	Class <code>Authenticator</code>	26
10.4.8	Class <code>Password</code>	27

10.4.9	Key.....	31
10.4.10	AsymmetricKey.....	32
10.4.11	SecretKey class	33
10.4.12	PublicKey.....	34
10.4.13	PrivateKey.....	36
10.5	API functions for cryptographic operation.....	38
10.5.1	General	38
10.5.2	Extension of key class	40
10.5.3	Interface methods related to keys.....	41
Annex A (informative) Open Mobile API.....		50
Annex B (informative) Support of Open Mobile API.....		53
Annex C (informative) IDL.....		54
Bibliography.....		55