

		Characteristics
Smart card chip	Chip manufacturer	Infineon
	Chip reference	SLE 88CFX4000P
	Chip CC certification	EAL 5+
	ROM memory	80 KB
	EEPROM memory	400 KB
	CPU	RISC 32 bit
	Internal clock	66 MHz
	External clock	up to 10 MHz
	Voltage range	1.62 V - 5.5 V
	Temperature range	-25 C to +85 C
	Technology	CMOS 0.13 microns
	Memory rewrite	> 500 K r/w cycles
	Data retention	>10 years
	Crypto processor	Yes (1408 bit)
	Onboard key generation	Yes
True Random Number Generator	Yes	
Smart card OS	OS type	Gemalto .NET
	Free EEPROM (approx)	70 KB without OTP 55 KB with OTP (option)
	Number of certificates and key pairs (2048 bit)	15
	Max I/O speed	223 Kbps, negotiable PPS
Communication protocols	ISO 7816 protocol	T=0
	RMI / Remoting	.NET Remoting
	SConnect	Yes
Cryptographic algorithms	RSA	Yes (512 to 2048 bit)
	Elliptic Curves	No
	DES / TDES	Yes
	AES	Yes (256)
	Hash SHA1 / SHA256	Yes
	Hash HMAC / MD5	Yes
Security certifications	Common Criteria	EAL5+ (chip)
	FIPS 140-2 Level 3	Option
Standards	ISO 7816	1, 2,3
	Javacard	No
	Others	ECMA 335
		ISO/IEC 23271
Supported crypto. architectures	Microsoft CAPI	Base CSP v5 to v7
	PKCS#11 for Windows	Yes
	PKCS#11 for Linux	Yes
	PKCS#11 for MacOS	Yes

One Time Password	OATH OTP , event based	Option
	OTP provisioning	Self or Live using SA Server v4 + (batch prov. in option)
	OTP CAP	Option
Microsoft Minidriver	Windows 8, Windows 7, Server 2008 R2, Server 2012	Automatic download from Microsoft Update
	Vista, Server 2008	v5 embedded + manual update from Microsoft Update
	XP SP1 to SP3, Server 2003	Manual download from Microsoft Update
Performance of crypto. operations	RSA Key Generation 1024 bit (CSP / P11)	3.1 s / 4.1 s
	RSA Key Generation 2048 bit (CSP / P11)	8.4 s / 9.4 s
	Import P12 1024 bit (CSP / P11)	9.1 s / 6.3 s
	Cached WinLogon (CSP)	1.5 s
	Crypto (CSP / P11)	2.3 s / 4.5 s
	Object enumeration 1024 / 2048 bit (P11)	1.0 s / 1.1 s
	Signature 1024 bit (CSP / P11)	0.5 s / 0.6 s
	Signature 2048 bit (CSP / P11)	0.8 s / 0.9 s
Supported certificate / data formats	X509 v3	Yes, up to 2048 bit
	PKCS#12 / PFX	Yes, up to 2048 bit
	PKCS#15	No
Form factors	Smart Card	Standard (ID1) & SIM (ID000) format
	Hybrid Card (contact + contactless)	Yes
	USB Token	Yes
	USB Token with OTP display	Yes
	USB Token with secure mass storage	Yes
Contactless technologies	MIFARE 1K, 4K, DESFire, Plus	Yes
	HID IClass and/or Prox	Yes
	Legic	Yes
	Others	See the complete list
Tools	SDK	Yes
	DAS, vSEC:CMS, .NET Utilities , Minidriver Manager Tool	Change & unblock PIN, Admin Key & certificates Mgmt