Mobile Security Solutions based on Smart Card

Requirements and application scenarios

The growing demands for mobility and security require applications that also provide financial transactions, secure internet access or access to sensible personal or enterprise- data, beside the smart card functionality.

„*certgate* Smart Card MMC“ is a new hardware-token in the flash memory form factor of a MultimediaCard (MMC) with signature and encryption functions as well as a java-based general-purpose processor (CPU).

The most efficient way to expand mobile data security with in Banking, IT and PKI infrastructures from desktop systems to all kinds of portable devices (laptops to PDAs or smart phones). It is a perfect solution for mobile and desktop applications and highest security demands, because it is based on tamper-resistant strong encryption (1024 bit) with in the smartcard and thus allows the usage of low-cost mobile devices, like PDAs and smart phones. The smart card as the heart of the security with its crypto processor and private/secret key store it can easily be taken out of the office PC and plugged into the a laptop or PDA or vica versa within a second and without the hassle and security thread of transferring/synchronising data between these systems.

Keys can be generated within the card, never have to leave the systems and thus are not exposed to interception. It has been certified according to the highest common security level EAL4+ (Version 2).

As a natural and practical electronic cryptographic key it provides highest hardware-based security along with ease of use, universal applicability and the attractive price that makes it an enabler for secure and profitable business processes.

The flash memory and the crypto-controller can be addressed from the terminal device independently from each other.

Standards

- MMC™ or RS-MMC™ flash memory card standard
- JavaCard™ 2.1.1 and Glabal Platform™ 2.1 compliant
- on card secure random number generator FIPS PUB 140-1 and BSI AIS 31 compliant
- RSA 1024 bit on-card security algorithms

mobile security

...now and everywhere