

vPCP-FC



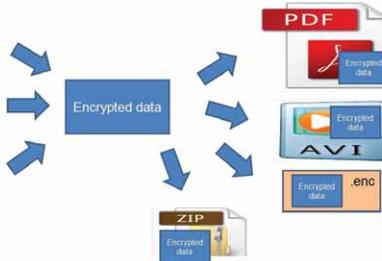
Vlatacom Personal Crypto Platform for File encryption and Cloud collaboration

Product Description

Vlatacom Personal Crypto Platform for File encryption and Cloud collaboration - vPCP-FC is designed for secure file exchange via insecure channels like public Internet connection. vPCP-FC's primary function is file encryption in dedicated hardware by predefined, high quality, encryption keys. Besides file encryption, vPCP-FC also performs steganography operations which additionally hides encrypted content inside common file formats like pdf, avi or png. vPCP-FC is connected to the client device: lap top, tablet or mobile phone by USB cable or WiFi connection. vPCP-FC acts as a secure WiFi gateway to the internet connection dedicated for file exchange via cloud storage services or e-mail. Strong multi-factor user authentication prevents device misuse.

Key Features

- Physical (hardware) separation of secure zone and communication zone prevents any type of malware attack.
- Dedicated tamper-proof hardware for file encryption.
- Plain text files are encrypted in-the-air via USB cable or WiFi by dedicated, password protected, host device application- no plain text files on the device.
- Encryption by high quality, pre-defined cryptographic keys, is initiated by multifactor user authentication (contactless smart card+ fingerprint)
- By default, cipher text files are transferred using WiFi connection that automatically connects to configured cloud storage services
- Off-line (stand alone) operation by USB sticks.
- Strong encryption algorithm to hide content of message and steganography mechanism to conceal existence of secret message.



vPCP-FC

- Secure file exchange via unsecure channels
- Exchange and synchronization over existing cloud services
- Default algorithm AES256
- Hiding encrypted data by using steganography techniques
- Multi factor user authentication



Market

V.I.P, businessmen, lawyers, ambassadors, agents and other officers have need for secure file exchange without employing dedicated crypto-officer. vPCP-FC enables them the most secure file encryption which is guaranteed by encryption keys secrecy. Easy to use interface employs contactless smart card, fingerprint scanner and minimal set of buttons. Encrypted file sharing within a group of vPCP-FC users is simple as safe deposit box usage if any user in a group has a copy of its key.

Use Case

vPCP-FC is connected to Internet via WiFi connection at any available hotspot (hotel, public place, office etc.). Users client device (tablet, lap top or mobile phone) connects to the vPCP-FC by separate WiFi connection or by USB cable. Before user starts uploading secret files it has to set operation mode and to add enough steganography carriers. Secret files will be encrypted during upload process. After upload process is finished, memory is switched from secure part of the device to the communication part and generated file can be synchronized with cloud service on users demand. In case of cloud storage unavailability, user can download encrypted data and send by email or store it on USB flash device.

Benefits

- Easy for use, without scarifying encrypted material protection level.
- On-line usage by common cloud storage services
- Off-line usage by USB sticks
- Hardware separation prevents malware attacks from Internet.



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