

FUJITSU PERSPECTIVE

Palm vein authentication offers high level biometric security

By Thomas Bengs, Fujitsu

Fujitsu Ltd. has introduced a new high level security authentication device to the market called PalmSecure. A biometric sensor device, it scans the human palm vein pattern and uses it to verify a person's identity.

High security with traceless biometrics

PalmSecure is a traceless biometric technology; the palm vein pattern is hidden within the body. This provides a very high level of security, as fraudulent reproduction of the biometric pattern is almost impossible. The technology works through the detection of de-oxygenated hemoglobin in the veins, and accuracy is ensured due to the high number of veins present inside the palm. The PalmSecure technology has been certified by the German Ministry of IT Security (BSI) with respect to life detection, spoofing and accuracy according to the ISO for Common Criteria EAL 2.

PalmSecure also has an industry-leading specification in its failure acceptance and failure rejection rates (security ratings which measure frequency of errors where unauthorised users were able to gain access, and conversely where authorised users were denied access, respectively).

Easy and practical

PalmSecure provides a number of practical benefits to both deployer and user. It can be used by anyone, independent of age or gender, and scratches on the skin, dirt, dust, or wetness do not affect the reliability or accuracy of the technology. Due to the position of the veins inside the palm, which remain unchanged

for the duration of one's life, registration is necessary only once in a lifetime.

Furthermore, the process of authentication takes only a second and is fully contactless and hygienic.

Deployed widely across industries

Since it was launched, PalmSecure has registered approximately 6 million users for physical and logical access, being used in lieu of passwords or smartcards.

The technology has been particularly popular within the financial services industry, where big banks in Asia, South America and Europe have integrated PalmSecure into ATMs. Pilots for cashless payments and online banking using PalmSecure are also under development and are nearing deployment. Internally, it can be used to protect access to banks' intranets.

PalmSecure use is also increasing within the public sector and within the healthcare market segment, as well as in building security. There are numerous installations at airports, hospitals and ministries.

A well-rounded solution

In the last five years, palm vein authentication has become increasingly widely accepted. PalmSecure's high level security, easy-to-use capability, traceless biometric feature, contactless hygienic operation, and high applicability rate makes this technology ideal for any enterprise looking for a state-of-the-art security authentication solution. ■

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PalmSecure™
Biometric authentication system
Your hand is the key