BANKING ON PALM VEIN BIOMETRICS

The Bank of Tokyo-Mitsubishi turned to cutting edge palm vein pattern biometrics and authentication technology from Fujitsu to secure customer transactions on a new combined credit and ATM bank card

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CASE STUDY

Company profile

Bank of Tokyo-Mitsubishi is a leading commercial bank in Japan, offering an extensive scope of commercial, investment, and trust banking products and services to businesses, governments and individuals worldwide.

● For further information, see www.btm.co.jp/english.

The challenge

As part of its corporate strategy to strengthen the retail banking business, Bank of Tokyo-Mitsubishi was planning to issue a new type of IC card which clients can use as both a credit and ATM card. In order to enhance the security of the transaction using the new card, Bank of Tokyo-Mitsubishi also planned to deploy biometrics authentication devices in ATMs and branch offices.

The solution: Palm vein pattern biometrics authentication technology

The pattern of blood veins is unique to every individual and will not vary over the course of a person's lifetime.

The fact that this pattern lies under the skin makes it almost impossible for others to read, so palm-vein pattern biometrics are essentially a secure method of verification.

High authentication precision: Fujitsu's sampling test showed a result that false acceptance rate was 0.013%.

How it works – A client registers the vein pattern data onto the IC card. A client can make a financial transaction only when verified by the authentication device at the branch office or ATM.

Benefits

High Security: As the vein pattern registration and the authentication process are both done within the IC card, the client's financial transaction can be highly secured without leak of the personal data.

The addition of IC card and authentication function to the existing branch office system developed by Fujitsu, the incumbent SI vendor for the system, enables cost-effectiveness and short lead-time of the deployment.

Further reading

● www.fujitsu.com/global/casestudies/WWW2_casestudy_BTM.html. ●