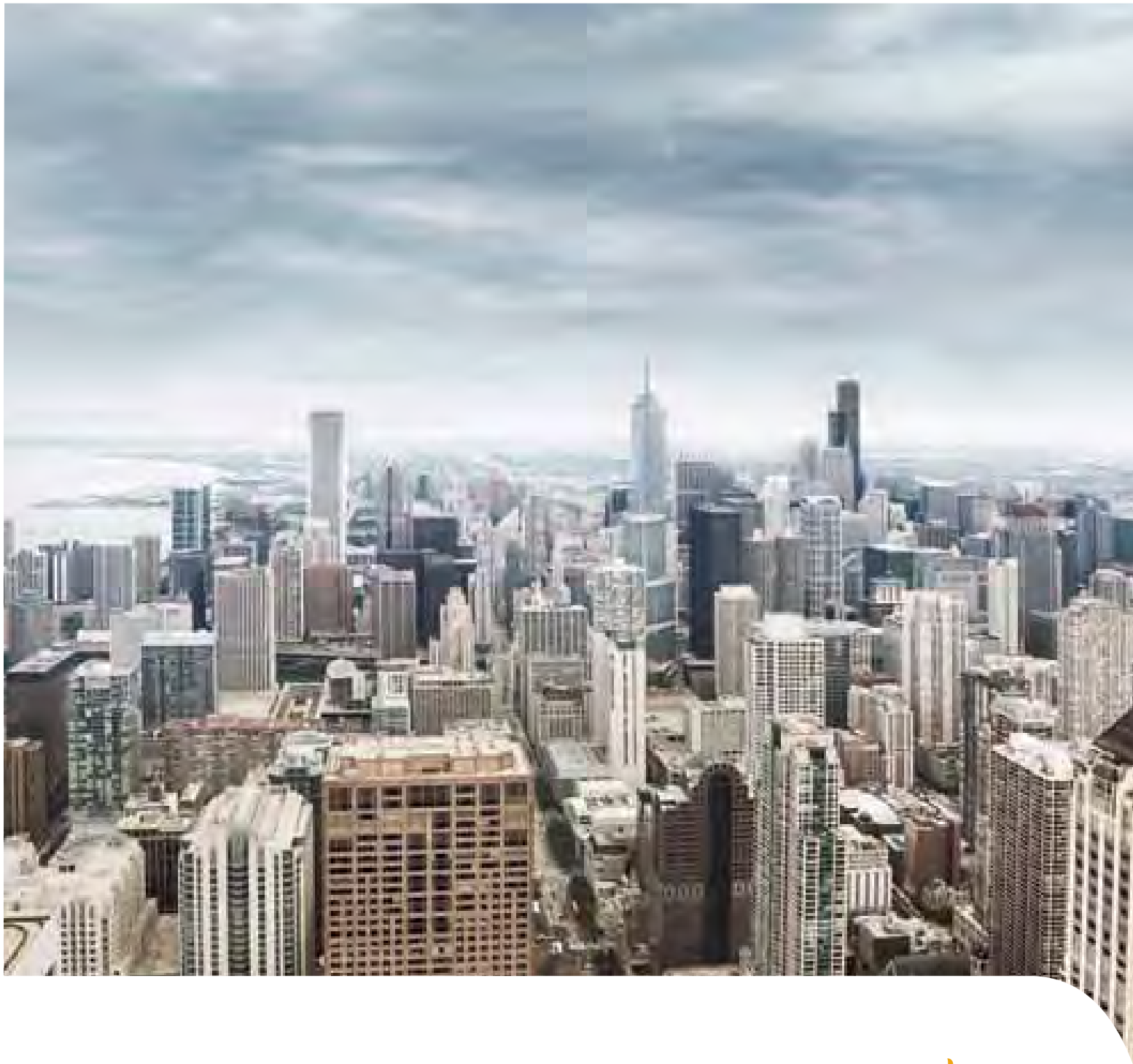# Global Solutions

shaping tomorrow with you

Fujitsu's PalmSecure™ is the world's most advanced biometric authentication system

It's the fastest, simplest, most versatile and efficient system available to verify your identity: to make sure that you are, in fact, who you say you are.

PalmSecure works by reading the vein pattern in your palm, a pattern that, unlike your fingerprints, resides inside your body and is impossible to duplicate.

You simply hold your palm over a small infrared scanner (without touching it) and within a second your identity is verified.

Your bank cards, your smart cards, your PIN numbers, your passwords could all be stolen from you, but no one could ever steal the vein pattern in your palm from you—which makes that pattern a golden key to your security.

And now, thanks to Fujitsu, that key is in your hands.

shaping
tomorrow
with you

The vein pattern in your palm is totally unique to you. No one else in the world can match it.

Fujitsu is your worldwide partner for PalmSecure software solutions and access control.

How does PalmSecure work?

PalmSecure, which is the result of over 20 years of Fujitsu's research into image recognition and processing technology, is a contactless, hygienic, non-invasive system that's fast, accurate, and easy to use. Simply hold your palm a few centimeters over a small scanner, and within a second the scanner captures a near–infrared image of your unique vein pattern. A proprietary algorithm takes this image, converts it into a digitized biometric template, and then matches it against a database of pre-registered templates. If a perfect match is found, your identity is verified.

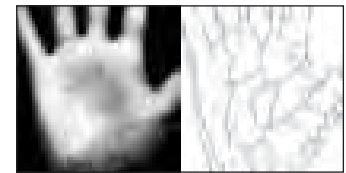Hold palm over scanner   Scanner reads vein pattern   Your identity is verified

Features of PalmSecure

Highly Accurate

PalmSecure has an experimentally-proven false rejection rate of 0.01%, and a false acceptance rate of less than 0.00008%. No other system in the world can match this kind of performance.

Easy-to-Use

PalmSecure is effortless to use. The scanning process is carried out in a simple and natural manner that is not awkward to the user or difficult in any way. Users intuitively sense the `naturalness' of the system and have no psychological resistance to it.

Hygienic and Non-Invasive

Because the system is contactless, it is completely hygienic— a consideration of significant importance to everyone, but especially to those in hospitals or other medical settings. In addition, PalmSecure is non-invasive: the near- infrared rays used in the scanner have no effect whatsoever on the body.

Can Be Embedded

The PalmSecure system can be embedded in all kinds of flat-type products, including laptop computers, copiers, printers, fax machines, wall-mounted room access systems, and eventually even mobile phones.

AWARDS

Fujitsu has won many awards for its highly original, world-acclaimed PalmSecure system, including the Wall Street Journal *"Technology Innovation Award for Security in Networks"* (2005); the *"Best of Innovations in the Biometrics Category"* of the CES Innovations Design and Engineering Awards (2006); and the 2007 CES Innovations Design and Engineering Showcase Honors.

VERSATILITY

TIME ATTENDENCE & PHYSICAL ACCESS CONTROL

Employee Time Recording/Access Control

For companies looking to achieve greater efficiency in human resources management, PalmSecure is an excellent choice. It is perfect for such advanced systems as cardless Employee Time Recorders, and cardless/keyless access control to doors, computers, printers, copiers and other office equipment. By eliminating the need for cards or keys or passwords, it significantly simplifies office procedures.

MEDICAL

Patient Registration/ Medical Records System

PalmSecure can be integrated into an existing medical records system to unfailingly guarantee patient identity, thereby preventing improper medicines or medical services from being given to patients, as well as preventing medical identity theft/ insurance fraud, and putting a stop to duplicated medical records. In addition, a PalmSecure system can greatly accelerate registration efficiency and convenience, and foster development of patient services.

PUBLIC FACILITIES

Libraries, Government Buildings, Airports, Train Depots

In December, 2005, Fujitsu was awarded a contract by Naka City in Japan's Ibaraki Prefecture to construct the world's first library system using palm vein authentication technology—so that books can be checked out without the use of library cards. Public facilities like libraries are a natural application for the PalmSecure system, as are such other public facilities as government buildings, airports, train depots, etc. , which can use the system to eliminate the need for cards, keys or passwords in access control.

FINANCIAL

A Radical Solution to the Problem of Bank Card Theft/Forgery

In 2004, the Suruga Bank and the Bank of Tokyo-Mitsubishi were the first in the world to deploy a secured account service utilizing the contactless palm vein authentication system. They were followed by several other banks in japan in 2005. And now Fujitsu is offering the system, which combines palm vein authentication with the use of a smart card, to banks throughout the world. Properly implemented, the system completely solves the problem of bank card theft and forgery. With PalmSecure your ATM systems will always be safe.

SSO & ID MANAGEMENT

No More Forgetting Multiple IDs/Passwords or Sharing IDs/Passwords

Palmsecure offers a range of PC and network security functions (strong authentication for Single Sign-On) with various solutions (Single Sign-On and ID Management). Single Sign-On with PalmSecure will provide perfect identity management for the accessing of secret or restricted information. And ID management will provide perfect access control to files and data.

Software Development Kit (SDK)

The PalmSecure system can be bundled with a software development kit (SDK) which comes with sample applications and authentication rate evaluation tools, in addition to a dedicated technical support website. The kit, which includes a thorough, resourceful troubleshooting guide, greatly facilitates pilot testing and system implementation.

Fujitsu first commercially introduced PalmSecure in Japan in July, 2004. The system was quickly adopted by major Japanese financial institutions, universities, libraries, governmental organizations and a range of private enterprises. By June, 2005, after PalmSecure had won a number of prestigious international awards, the system had generated considerable interest in nations all across the earth. As a result, in March, 2006 Fujitsu officially launched worldwide sales of the system, and so far has sold 50,000 PalmSecure units in 34. countries with over 1,000,000 users. And this, of course, is only the start. The story of PalmSecure has only just begun.

U. S. A.

In July, 2007 the Carolinas HealthCare System (CHS), the largest public healthcare system in the Carolinas (North and South Carolina), and the third largest in the entire U.S.A., announced that it would deploy the Fujitsu PalmSecure system throughout all its hospitals in the Charlotte (North Carolina) area. The deployment is part of a solution to more quickly and efficiently register patient information, and to safeguard patient identities and medical records. CHS carefully considered a nurnber of biometric options, and finally chose Fujitsu PalmSecure due to its high accuracy and non-invasive user interface. After choosing the Fujitsu system, CHS conducted a pilot program at several of its major hospitals, as a result of which it found that PalmSecure significantly improved the patient registration process. Consequently CHS has decided that it will eventually deploy the system throughout all of its hospitals.

Brazil

In the first half of 2006 the Banco Bradesco S.A. of Brazil, which is the largest private bank in Latin America, with 25 million individual and corporate customers and more than 35.000 ATMs, started internally testing Fujitsu's PalmSecure, with general implementation throughout its system scheduled to take place soon thereafter. The bank, which selected PalmSecure after thoroughly researching a number of biometric technologies, was impressed by the many outstanding features of the Fujitsu system, including its high verification accuracy and non-invasive, hygienic user interface. It was also impressed with the compact nature of the PalmSecure sensor, which enables it to be used in a very broad range of applications, including PCs, ATMs, and wall-mounted building and room access systems.

India

Since October 2008, Fujitsu India along with its partners have been implementing PalmSecure solutions at Public Sector, Manufacturing, Railways, Fitness Clubs, Offices, e–Government applications and High secured Govt. Establishments. For Railways, PalmSecure has been integrated with Breath Analyzer and flawlessly establishes the identity of the locomotive driver before he is given a locomotive to drive. For the e-Government program, PalmSecure checks the respondents' identity so as to prevent duplication of responses.

Brazil

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PalmSecure™