FUJITSU

Case Study
Akums Drugs & Pharmaceuticals Ltd

» At Akums, we follow the mantra of 'time is money', which is why we installed the Biometric Palm Scanning System for effective time management and utilization «

Board of Directors, Akums Drugs & Pharmaceuticals Ltd

THE CUSTOMER

Country: India
Industry: Pharmaceutical
Number of employees: 5,500 (2011)
Website: www.akums.in

THE CHALLENGE

Akums wanted a 1:N matching system for all employees and workers that would allow inter-plant movement and could manage 100+ additions and deletions every day. It needed to maintain a database for up to five years.

THE SOLUTION

Akums invested in Mantra PV2000 PalmReader terminals using Fujitsu PalmSecure technology, combined with the Sensometrix SENSOBRAIN solution.

The customer

Akums Drugs & Pharmaceuticals Ltd, Haridwar (India), is an internationally recognized, WHO-GMP certified leading contract manufacturer which has rapidly emerged as the premier integrated pharmaceutical company in India. Its business focuses on the manufacture and marketing of pharmaceutical products and services to clients across the globe. Its portfolio includes a range of US-FDA norms producing hormonal preparations in oral (solid & liquid) and injectable forms, skin ointments and cosmetic preparations, oncology formulations and contract research and manufacturing services.

The challenge

The company needs a robust solution to manage the identities of its workers, spread across its nine closely located units, transparency and no possibility of any leakages in the system, as experienced in their earlier solutions. Moreover, the addition and deletion of workers must be acknowledged instantly, leading to 100 plus changes being managed every day. Similarly, the movement of a worker from one plant to another needs to be noted immediately. In addition, the database which contains the enrolled workers has to be stored for up to five years to avoid the employment and payment of black-listed or ghost workers.

The solution

The solution comprises the Mantra Industrial palm vein attendance terminal PV2000 complemented by the use of the SENSOBRAIN software solution for 1:N matching. Mantra Softech INDIA is a palm vein recognition scanner manufacturer, wholesaler and distributor, which is using Fujitsu scanners for palm vein scanning. The SENSOBRAIN software solution is delivered by the application development specialist Sensometrix, also based in India. The PV2000 terminal takes full advantage of Fujitsu PalmSecure technology to provide maximum biometric identification security. This biometric equipment records time attendance and also provides security with access control to doors.

The PV2000 Terminal is a high-end industrial attendance terminal which recognizes people using personal palm vein patterns. This terminal can be used for multiple industrial applications including labor and contract worker management, canteen management and work management. Palm vein biometrics is the most secure and most accurate biometrics for identification. It is best suited for industries where other biometrics do not work due to difficult conditions.

THE BENEFIT

- Transparent and 'sealed' time attendance solution without much scope for manual intervention
- The first strictly 1:N solution designed to authenticate over 25,000 users and keep the database for up to five years
- A 'no cards - no compromise' approach was achieved by the company which was suffering due to inexperienced workers and shortcomings of previous biometric technologies
- It is an uncomplicated process to add, move or delete workers immediately
- Highly secure authentication through palm vein recognition of the person – not of a medium
- Fast authentication process
- Resistant to environmental influences
- Exceptionally high level of user acceptance
- Simple implementation of "true authentication"
- High degree of data security
- Biometric data only has to be entered once

The SENSOBRAIN solution enables complete control of inter-plant movement while identifying blacklisted workers before enrollment. The user does not require an additional card, PIN number, password / user ID or even a token – all things that can be lost, forgotten or stolen.

The human palm vein pattern is extremely complex. The position of the veins remains the same throughout your lifetime and is different for each and every individual. Dirt or superficial injuries to the skin have no impact on the palm vein pattern. Beneath the surface of the skin it is best protected against any misuse and manipulation.

Palm vein recognition is based on the absorption of infrared light, which encounter venous blood in the palm veins that is flowing back to the heart. The oxygen-reduced blood in the veins absorbs the infrared light. The camera of the PalmSecure sensor makes a picture of the vein pattern, encrypts it into a special algorithm and then transforms it into a biometric template, which is then saved in a database.

Palm vein recognition with PalmSecure is practically impervious to environmental influences and, due to its touch-free nature, is a very hygienic procedure. It only works with living tissue and in view of the present state of technology is free from manipulation. PalmSecure also provides significantly higher precision and security than the biometric recognition of a finger print or an iris. As the use of PalmSecure at Akums shows, it is easy, quick and convenient for the user to handle.

PRODUCTS AND SERVICES

- Fujitsu PalmSecure technology used via Mantra PV2000 PalmReader terminals
- Sensometrix SENSOBRAIN solution

Biometric palm vein sensor technology boasts an error rate in practice of 0.00008% as regards an unauthorized person falsely gaining access or 0.01% for an authorized person being incorrectly denied access.

The benefit

As a result of the PalmSecure deployment, Akums now has total visibility of time attendance across all its plants and offices from a single window and has eliminated the possibility of fraud. It is the first strictly 1:N solution designed to authenticate over 25,000 users and keep the database for up to five years, helping the company achieve its goal of 'no cards - no compromise'. Administrators can easily add, move or delete workers to the system in an instant, thanks to the simple process.

Because it is exceptionally resistant to environmental influences, the system is resilient and accurate, removing the possibility of false identification. Its ease of use has led to high levels of user acceptance, making implementation welcome.

Conclusion

Akums now enjoys simple, accurate and reliable authentication in several sites, enabling it to keep track of its workforce and ensure that only authorized personnel have access to sensitive areas. Because the biometric data need only be entered once and is subject to the highest level of security, Akums can rest assured that the details are safe and the system will work effectively.

About Fujitsu

Fujitsu is the leading Japanese information and communication technology (ICT) company offering a full range of technology products, solutions and services. Approximately 170,000 Fujitsu people support customers in more than 100 countries. We use our experience and the power of ICT to shape the future of society with our customers. For more information, please see www.fujitsu.com.

Contact
Fujitsu Technology Solutions
Mies-van-der-Rohe-Str. 8
80807 Munich, Germany
Phone: +49 89 62060-1183
E-mail: thomas.bengs@ts.fujitsu.com
Website: www.ts.fujitsu.com
2014-01-29