

The Bechtle logo is a green parallelogram with the word "BECHTLE" in white, bold, uppercase letters.

“The PalmSecure™ palm vein authentication system from Fujitsu provides a smart, hygienic and secure way to control access to six security areas within our new office building.”

Frank Wrede
Managing Director
Bechtle GmbH IT-Systemhaus Dortmund



Bechtle uses the PalmSecure™ palm vein scanning technology from Fujitsu for secure, easy and hygienic access to zones and rooms at its office in Dortmund, Germany.

At a glance

Country: Germany
Industry: IT system vendors
Founded: 1983
Website: www.bechtle.com/gb

Challenge

Bechtle GmbH IT-Systemhaus Dortmund was looking for a smart, contactless and biometric access control process for its approximately 150 employees, as well as freelancers and trainees, at its new company headquarters.

Solution

The PalmSecure™ technology from Fujitsu is a contactless, biometric palm vein authentication solution that permits particularly fast and secure employee identification and easy administration of the authorization concepts. The process is also extremely hygienic.

Benefit

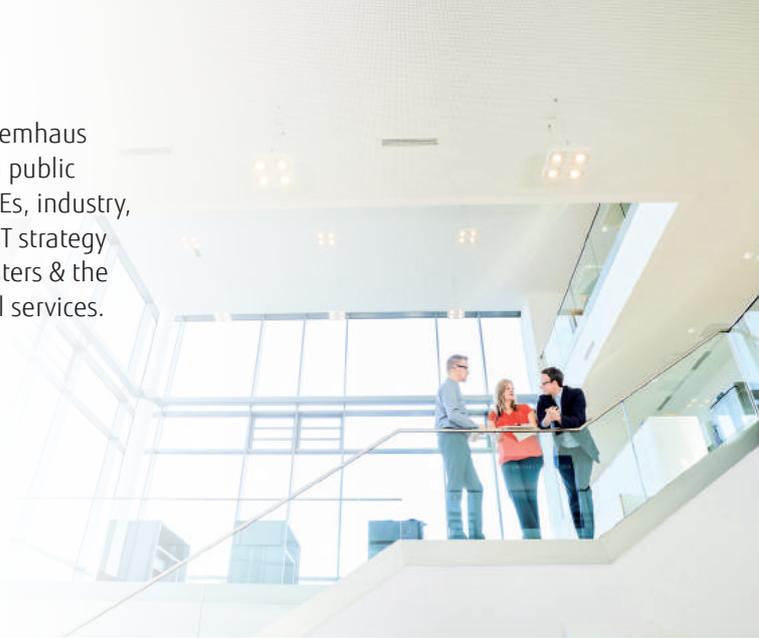
- Particularly high security through the biometric detection of palm vein patterns and strong encryption of the biometric data
- Comfortable, fast and hygienic authentication at doors and zones
- Easy configuration and administration of time-limited access authorizations
- Employees are never without their authentication token (hand), and it cannot be lost or transferred to third parties

Customer

With its regional presence and inter-regional strength, Bechtle IT-Systemhaus Dortmund/Meschede is a future-oriented IT partner to companies and public clients. It serves approximately 400 customers in the segments of SMEs, industry, services and public clients. Bechtle's main areas of expertise include IT strategy consulting, solutions and concepts for the digital workplace, data centers & the cloud, IT security, networking and collaboration as well as operational services. More than 150 employees work in the company's Dortmund office.

Products and services

- 9 x FUJITSU PalmSecure™ palm vein scanners



Seeking a smart access control system

When the more than 150 Bechtle employees enter their new headquarters on the historic grounds of the Phönix-West blast furnace in Dortmund, they find a modern, open and pleasant working atmosphere in a total of approximately 3,000 square meters of office space. The new building, which Bechtle moved into in January 2018, houses not only Bechtle GmbH IT-Systemhaus Dortmund but also other members of the holding company, such as Bechtle direct, Bechtle Logistik & Service GmbH and the CAD specialist SolidLine AG. One thing became clear as early as the planning phase for the new building: Access to the individual companies as well as to the warehouse and other security zones needed to be securely, easily and dynamically controlled.

"We knew that we were going to need a smart solution for physical access to individual zones and companies within the building," explains Frank Wrede, Managing Director of Bechtle Dortmund IT-Systemhaus GmbH. "We looked at and tested a number of different concepts. Classic access control systems using transponders, for instance, did not meet our requirements. We were looking for a biometric system that would be secure and easy to administer. In the end, we chose the PalmSecure™ biometric palm vein authentication solution from Fujitsu."

Contactless, hygienic and secure authentication

PalmSecure™ from Fujitsu is an authentication system based on modern biometric security technology. Unlike with fingerprinting, PalmSecure™ uses palm vein patterns for biometric identification. The PalmSecure™ palm vein scanner recognizes the image of a person's vein patterns with the aid of infrared light. The low-oxygen hemoglobin in the palm veins absorbs the infrared light, which reduces reflection, and the veins appear as black patterns. These vein patterns are then compared with a previously recorded pattern for authentication purposes. Since vein patterns are unique to each person, and the sensor recognizes the pattern only if blood is actually flowing in the veins, this method is extremely secure. Because the system is also contactless, it meets high standards of hygiene. Another benefit is that each person is never without their authentication token – their hand – and it cannot be lost or transferred to third parties without permission.

Easy administration of six security zones

150 permanent employees, along with trainees and freelancers, work in the Dortmund location. They all must identify themselves and register one time at the reception, where their hand is scanned and the palm vein pattern securely encrypted. At the same time, they are assigned spatial and time-based access authorizations.

"Administering the authorizations is particularly easy and practical, for example if associates such as freelancers or trainees are supposed to be granted access for a limited period of time. We can define these rights in advance and do not have to collect any cards or transponders when their work with us is over," explains Wrede. "Once they are registered, the employees simply position their hand over the scanner and are granted access to the areas within the building for which they are authorized and only for the length of this authorization period."

Secure encryption of the biometric data

"Despite the fact that personal biometric data is recorded and used, the method is very well received among the employees," says the delighted managing director. "There was, of course, some initial skepticism for data privacy reasons. However, since the biometric information is securely encrypted and Bechtle has no access to this data, we were able to quickly alleviate these misgivings." Today, the employees are happy with the easy, fast and hygienic access solution. "The technology has won me over," Wrede concludes. "I would install it again anytime. The expertise we have acquired by using PalmSecure™ also benefits our customers and partners who are looking for a secure biometric authentication solution for themselves or for their own customers."

FUJITSU