CEM SYSTEMS
From Tyco Security Products

AC2000 Biometric Enrolment

Via S610f Fingerprint Reader

Features that make a difference:

- Fully integrated Biometric Enrolment software process
- Fast fingerprint validation over 10/100 Mbps Ethernet
- Secure communication on the central AC2000 server and also in the S610f reader database using RC4 encryption
- Fingerprint images can be displayed on the AC2000 workstation screen during enrolment as a visual aid, or hidden for privacy data protection reasons
- Non-Enroller feature within the software allows for full cardholder enrolment when an acceptable fingerprint scan cannot be obtained for whatever reason
- 'Non Biometric Timezone' feature offers non biometric validation at pre-defined parts of the day

The AC2000 system contains fully integrated Biometric Enrolment using the CEM S610f Fingerprint Reader. This allows the user to enrol a cardholder's fingerprint template onto the AC2000 server at the same time as capturing other details such as personal information and photographic image.

This integrated process removes the need for any 3rd party enrolment software or hardware to be installed in addition to the AC2000 access control system. Fingerprint validation takes place using an S610f validation reader directly connected to your Ethernet network. Any issues with the quality of the fingerprint scan are handled by the validation reader and the user is prompted to retry until an acceptable scan has been obtained.

After a successful fingerprint scan, the user is presented with a fast, clear image of the enrolled fingerprints within the AC2000 software, providing for ease of use and quick user enrolment into the access control system.

The software does not store an actual image of the fingerprint anywhere in the system. Instead a unique ID number is derived from the minutiae of the fingerprint scan and is stored into both the AC2000 central server database and the S610f fingerprint reader database at the door.

Integrated solution for both access control & biometrics

AC2000 Biometric Enrolment provides a single Biometric and card validation process using the AC2000 Personnel screen. When a new card is added, cardholders present their finger for scanning which is then stored on the AC2000 central database. This offers cost savings and eradicates the requirement to have a separate biometric software process in addition to the access control enrolment process.

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Data Protection

A visual image of the fingerprint is not stored. A unique ID number is generated from the minutiae of the fingerprint and is communicated to the AC2000 server and S610f reader database using RC4 encryption. This number cannot be reverse engineered back into a fingerprint image.

Non Biometric Timezone

AC2000 allows users to predefine a “Bio NOT Required” Timezone. This Timezone allows the S610f fingerprint readers to provide card only access, rather than card plus fingerprint, during certain times of the day.

Speed of Operation

Fingerprint validation within the AC2000 system is performed via Ethernet. This removes the need for traditional RS232 cable connections to an enrolment workstation and saves costs as no external converters are required. The integrated Suprema fingerprint module also offers fast 1:1 matching speed, whereby the access control card is matched with the fingerprint template locally at the door.

Fingerprint template storage

The AC2000 fingerprint validation and operational process was designed to store the fingerprint template in the AC2000 system and the S610f reader database, rather than a traditional ID smart card. This means lost cards do not require biometric re-enrolment and also means existing cards (such as 125 kHz Proximity) can be used. The solution is also suitable for installations with a large number of users, as the S610f fingerprint reader can hold up to 123,000 templates in its database.

Requirements

- AC2000 AE v6.6 software & upwards
- AC2000 SE v5.7 software & upwards
- AC2000 Lite v6 software & upwards
- S610f Fingerprint Reader

Related Products

AC2000 SE

AC2000 AE

AC2000 Lite

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