

DoorKeeper Biometric People Management System



DoorKeeper is a multi-modal solution, and depending on the requirements of the customer can be configured to use Iris, Fingerprint and/or Finger Vein & Print biometric technology. This adaptable system can range in size from small systems with 1 server and 2 or 3 clients to a state wide network of correctional centres with dual redundant servers and many points of identification per site. DoorKeeper represents over 20 years of world class biometric application software architecture and engineering effort.

DoorKeeper integrates and manages:

Features

- Secure airlock entry\exit portals
- Electronic Key Cabinets
- Electronic Asset cabinets/lockers
- Reception and Biometric Recording
- Property storage systems
- Comprehensive Visitor Appointment Management
- Asset access policies
- Contractor approved items
- Permission for contractor site access

Biometric Identification

Biometrics is the science and technology of measuring and analysing biological data. In security systems, biometrics refers to technologies that measure and analyse human body characteristics, such as DNA, fingerprints, eye retinas and irises, voice patterns, facial patterns and hand measurements, for identification purposes.

DoorKeeper can be configured to identify people using different types of biometrics: Fingerprint, Iris and / or Finger Vein & Print fusion, Multi-Fingerprint Contactless, Palm-Vein and more. Whenever two or more biometric technologies are used together, that system or device becomes known as Multi-Modal. These types of configurations can greatly increase the identification abilities compared to a single biometric system or device. When a single biometric technology is used together with another token of identification like RFID, Card or Barcode, a significantly more robust and accurate system can be deployed at a cost that allows often critical funds to be focused elsewhere within the security project to produce a better outcome.

Biometric



Minutia Points



Minutia Map



Data Stream

```
0101010001101000011010
0101110011001000000110
1001011100110010000001
10111001101110111010
0010000001100001011000
1101110100011101010110
0001011011000110110001
1110010010000001100110
0110100101101110011001
1101100101011100100111
0000011100100110100101
1011100111010000100000
0110010001100001011101
0001100001001011000010
```

Fingerprint Identification

The unique nature of a fingerprint makes it ideal for use in automated recognition systems. Once a fingerprint is captured, the system locates the minutia points. These minutia points occur where the lines of the ridges begin, end, branch off and merge with other ridge lines. These points are then mapped and a line is drawn between each point. The map is then stored as a data stream, called a minutia template, in a database for future comparison with other presented fingerprints.

It is important to note that during the entire process no fingerprint images are stored on the system and a fingerprint image cannot be recreated from the minutia template.

It is critical for any systems success to make allowances for those people who may have difficulty being captured on any particular biometric technology and our years of experience have consistently and constantly demonstrated that fingerprint biometrics, utilised with a second token of identification will provide the most appealing and manageable results in environments requiring high-security and acceptable access speeds.

Card Identification

Access Control Systems have utilised near-field proximity cards for decades. There are benefits to utilising cards in a way that requires an individual to match their biometric identifier to the record programmed onto a card. This is called a "Verification" system and is both powerful and flexible for large scale environments because it can overcome the device limitations of set number of users.

RFID Identification

RFID Systems provide an important measure to track and trace material items that can be carried on people. This is particularly useful for tracking items like keys and radios but can also be used for tracking individual people when devices like RFID Armbands are used.

Barcode Identification

DoorKeeper can use barcode inputs in a variety of ways and while barcodes in themselves are not a particularly secure form of inputting information, they offer incredibly high performance at an almost negligible cost. DoorKeeper has the inbuilt functionality to print a unique barcode identifier onto a high-visibility security grade wristband, within seconds, which can be easily attached to a visitor, but not so easily removed, for use in passing through access points.

Getting the best from the system

DoorKeeper utilizes advanced hardware and software to quickly and accurately identify people. However, the ability of DoorKeeper to maintain this level of performance is highly dependent on the quality of the biometrics captured when enrolling personnel and performing searches. It is for this reason that operators of the system must be well trained in assessing the quality of biometric enrolment and in providing instructions to personnel using the system.



Additional Features included in DoorKeeper to consider

Operator Fingerprint Login

DoorKeeper supports individual operator login by fingerprint or username and password. To login, the operator simply places their finger on a second fingerprint reader next to the keyboard and mouse. DoorKeeper can also be configured to automatically log the operator out after a defined period of time to avoid others using the system if staff are called away or leave the premises etc.



Driver's License Scanner and A4 Document Scanner

Allows for scanning the image of an Australian and New Zealand driver's License to be stored in the users profile and can be used for reporting and review purposes.



A standard A4 scanner can be used to scan other "proof of identity" documents to be stored in a person's profile.