

# Product Proposal for Suprema Access Control System



Suprema Inc.

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# Introduction

## **Suprema**

is the leading company in biometrics with cutting-edge technology and excellent technical staffs. Our fingerprint technology was proven to be world's No. 1 in a worldwide fingerprint verification competition (FVC2004). Suprema's fingerprint products have been sold to more than 60 countries worldwide and are being used in various application fields.

## **BioEntry™**

is an advanced biometric access reader equipped with our award winning fingerprint recognition engine and standard Wiegand interface. BioEntry™ can practically replace proximity or magnetic readers in existing access control systems as well as new installations.

## **BEACon™**

is a single door controller with built-in LCD and keypad. Connected to BioEntry™, BEACon™ will eliminate the need for a host PC and enhance the security level of your application.

# FVC2004 Results

## ● FVC 2004

- 110 teams registered and 48 teams submitted algorithms
- Tested with 3,200 fingerprint images from 4 different sensors
- **Category**
  - Open Category : no limit on algorithm (academic interest)
  - Light Category : limit on time, memory and template size (commercial)
- **Result (Light Category)**

<i>Ranking</i>	<i>Participants</i>	<i>Results</i>
<b>1</b>	<b>Suprema Inc.</b>	<b>3.51%</b>
2	Ji Hui	3.69%
3	HanWang Technology	3.96%
4	Bioscrypt	4.29%
5	Testech	4.33%
6	Nltgen	4.86%
7	Institute of Automation	4.91%
8	Deng Guoqiang	5.26%
9	IDENCOM	5.29%
10	Neurotechnologija	5.64%

<http://bias.csr.unibo.it/fvc2004>

# Products

## ● BioEntry Pass – Fingerprint Reader

### ◎ Operation Mode

- ◎ Fingerprint Identification (1:N matching)
- ◎ Existing RF reader + Fingerprint verification

### ◎ Features

- ◎ Simple one-touch operation
  - No more keys, cards, or PINs
- ◎ Industry's fastest identification
  - 1 to 1,000 search in 1 second
- ◎ Award winning fingerprint recognition engine (No. 1 in FVC 2004)
- ◎ Affordable price comparable to non-biometric access readers
- ◎ Template capacity : 9,000 templates at 4MB flash
- ◎ Flexible interface : RS232/422/485, Wiegand IN & OUT, Data/Clock OUT
- ◎ Multiple choice of industry's leading fingerprint sensors (Thermal, Optical, Capacitive)



# Products

## ● BioEntry Smart – Fingerprint & Smartcard Reader

### ◎ Operation Mode

- ◎ Smart card + Fingerprint (Default)
- ◎ Fingerprint identification (1:N matching)
- ◎ Smartcard only (Bypass card)

### ◎ Features

- ◎ Biometric data stored on card
  - Easy registration and no privacy concern
- ◎ Instant replacement of existing readers
  - No additional wiring
- ◎ Award winning fingerprint recognition engine (No. 1 in FVC 2004)
- ◎ Affordable price comparable to non-biometric access readers
- ◎ Template storage on standard Mifare smartcard
- ◎ Flexible interface : RS232/422/485, Wiegand IN & OUT, Data/Clock OUT
- ◎ Multiple choice of industry's leading fingerprint sensors (Thermal, Optical, Capacitive)



# Products

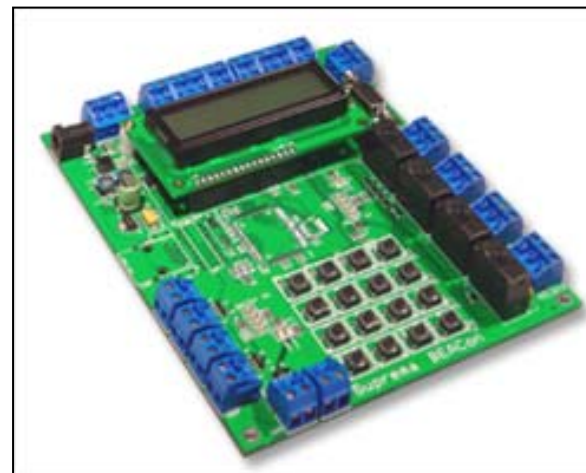
## ● BEACon – Door Controller

### ⊙ Features

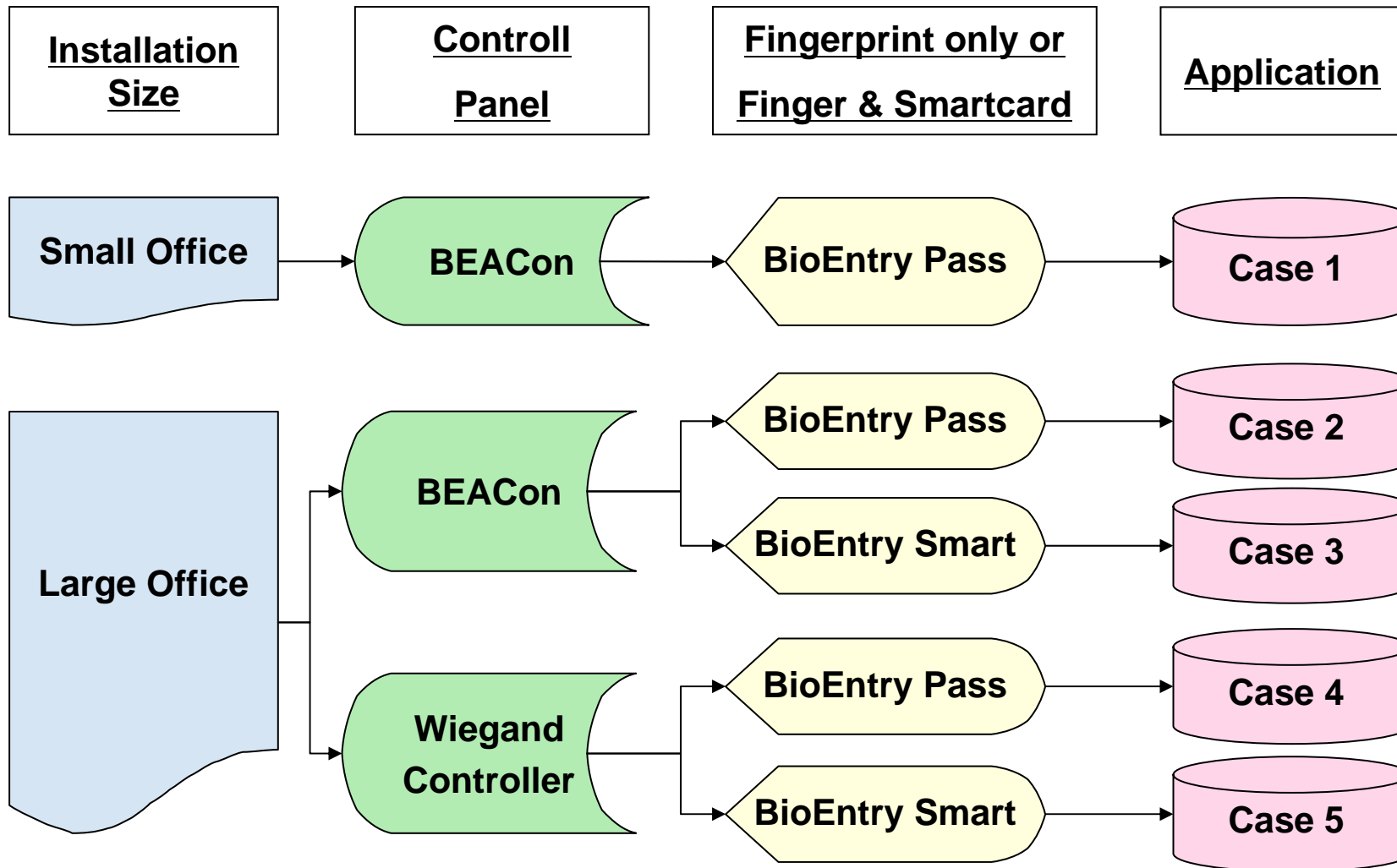
- ⊙ Easy setup and fingerprint registration using LCD and keypad
- ⊙ Realize a complete access control system without a host PC in standalone mode
- ⊙ Network mode via RS485 interface (Optional TCP/IP interface)
- ⊙ Enhance the security using encrypted secure protocol
- ⊙ Versatile input switch and output relay

### ⊙ Accessory (Optional)

- ⊙ Metal case
- ⊙ Power adaptor

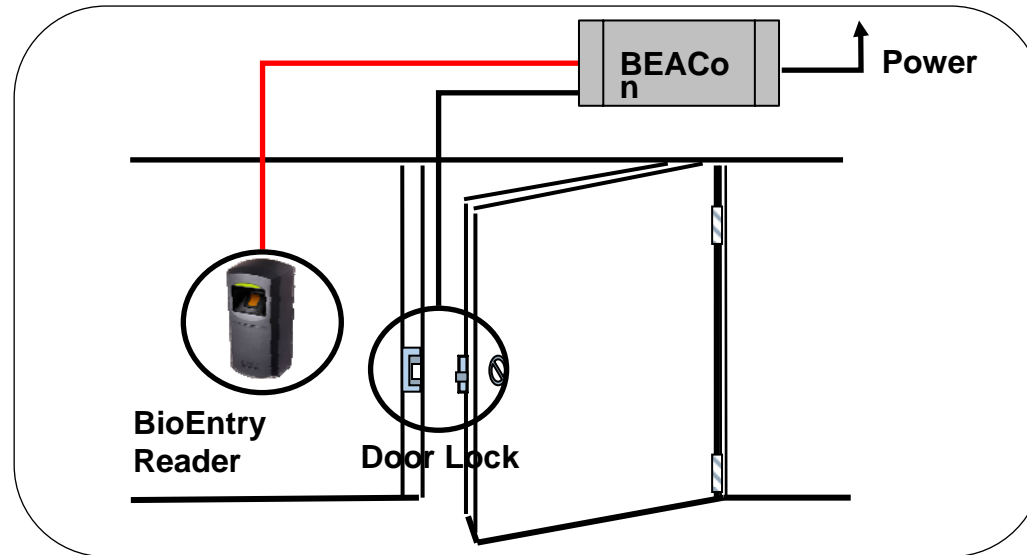


# Applications



# Case 1 : Small Office with BEACon and BioEntry Pass

## Configurations



## System Components

- ⊙ BioEntry Pass reader, BEACon controller, electric door lock

## Features

- ⊙ Complete access control system without a host PC
- ⊙ Easy fingerprint registration using the keypad and LCD on the BEACon controller
- ⊙ Best solution for a small office requiring simple access control system in a cost-effective manner

# Case 1 : Small Office with BEACon and BioEntry Pass

## Operations

### Enrollment procedure



Enroll fingerprint template with  
BEACon keypad and BioEntry

### Matching procedure



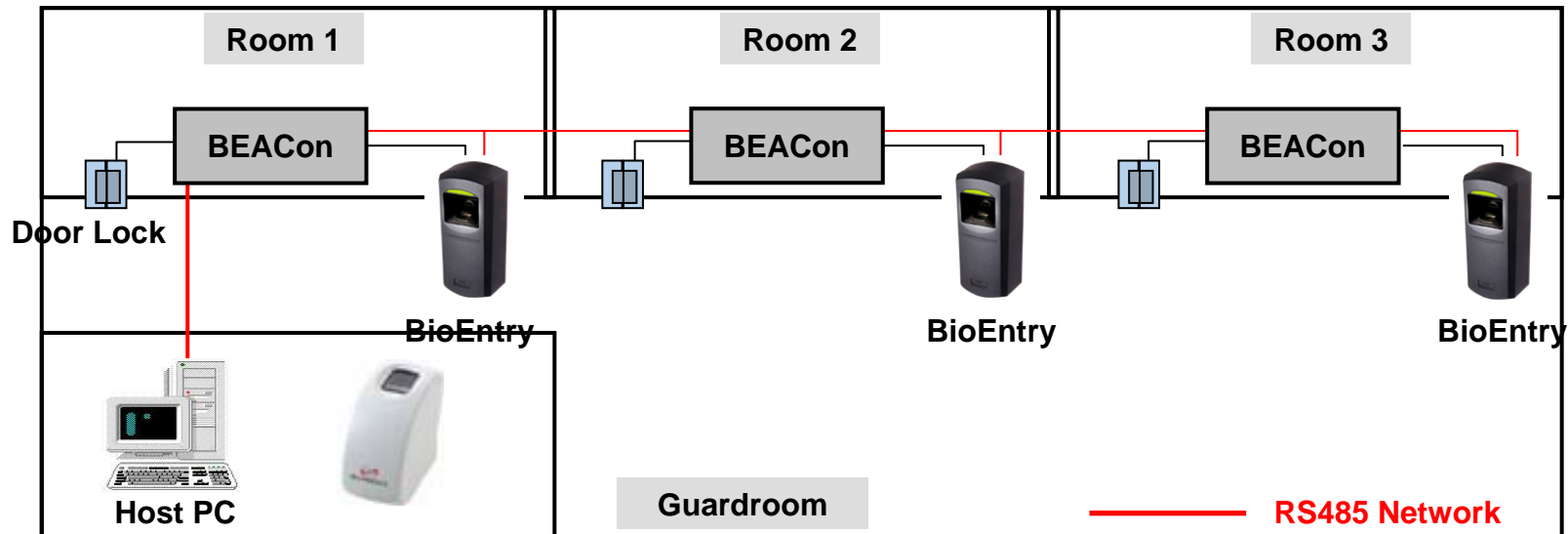
Touch finger



Success or fail

## Case 2 : Large Office with BEACon and BioEntry Pass

### Configurations



### System Components

- ⊙ BioEntry Pass reader, BEACon controller, electric door lock, Host PC

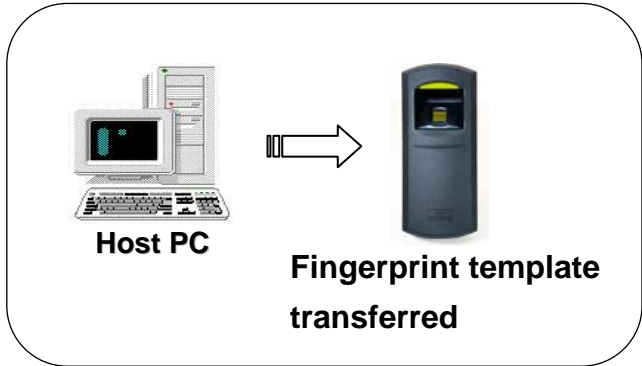
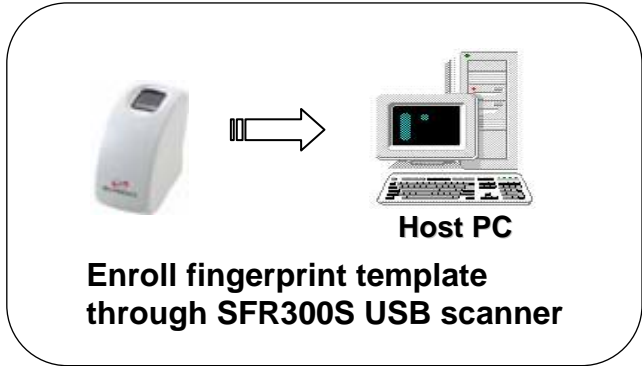
### Features

- ⊙ Easy system integration with Suprema access control package of BioEntry reader and BEACon controller
- ⊙ Simple one-touch operation – no more keys, cards, or PINs
- ⊙ Best solution for a new installation of access control system, especially in a large office

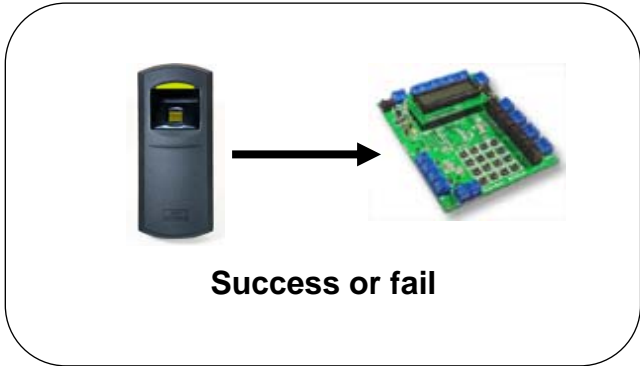
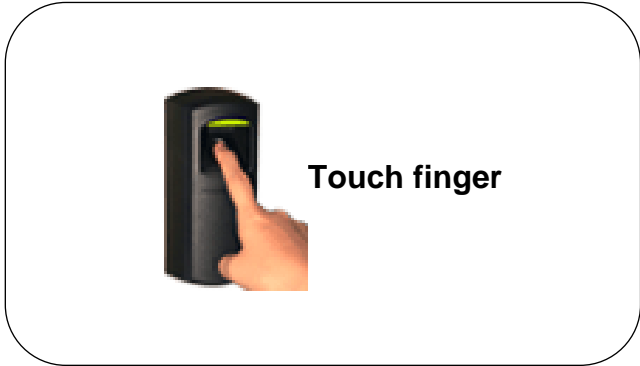
# Case 2 : Large Office with BEACon and BioEntry Pass

## Operations

### Enrollment procedure

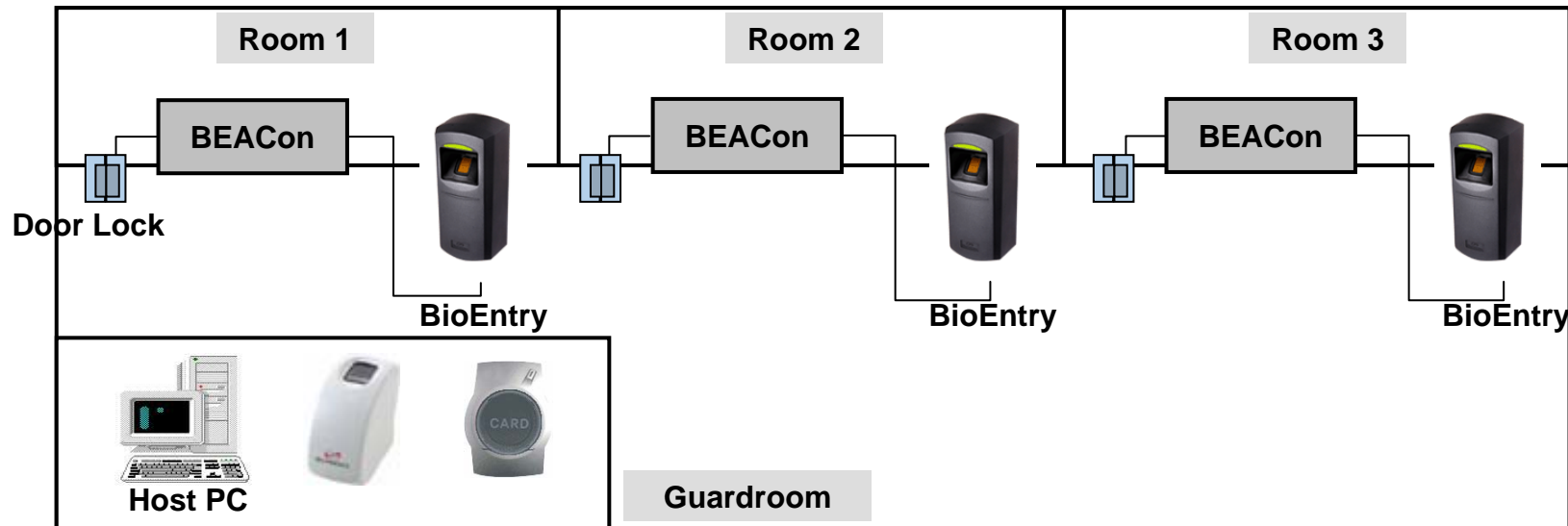


### Matching procedure



# Case 3 : Large Office with BEACon and BioEntry Smart

## Configurations



## System Components

- ⊙ BioEntry Smart reader, BEACon controller, electric door lock, Host PC

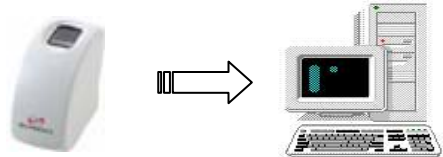
## Features

- ⊙ Easy system integration with Suprema access control package of BioEntry Smart reader and BEACon controller
- ⊙ Biometric data stored on standard Mifare smartcard - easy registration and no privacy concern
- ⊙ Best solution for a new installation of access control system, especially in a large office

# Case 3 : Large Office with BEACon and BioEntry Smart

## Operations

### Enrollment procedure



Host PC

Enroll fingerprint template through SFR300S USB scanner

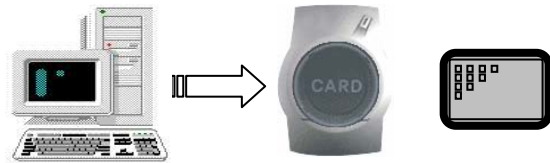
### Matching procedure



Smart Card



Fingerprint template transferred

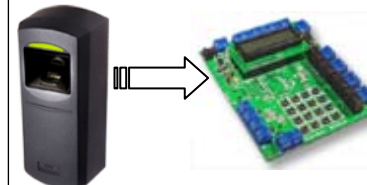


Host PC

Write to smartcard



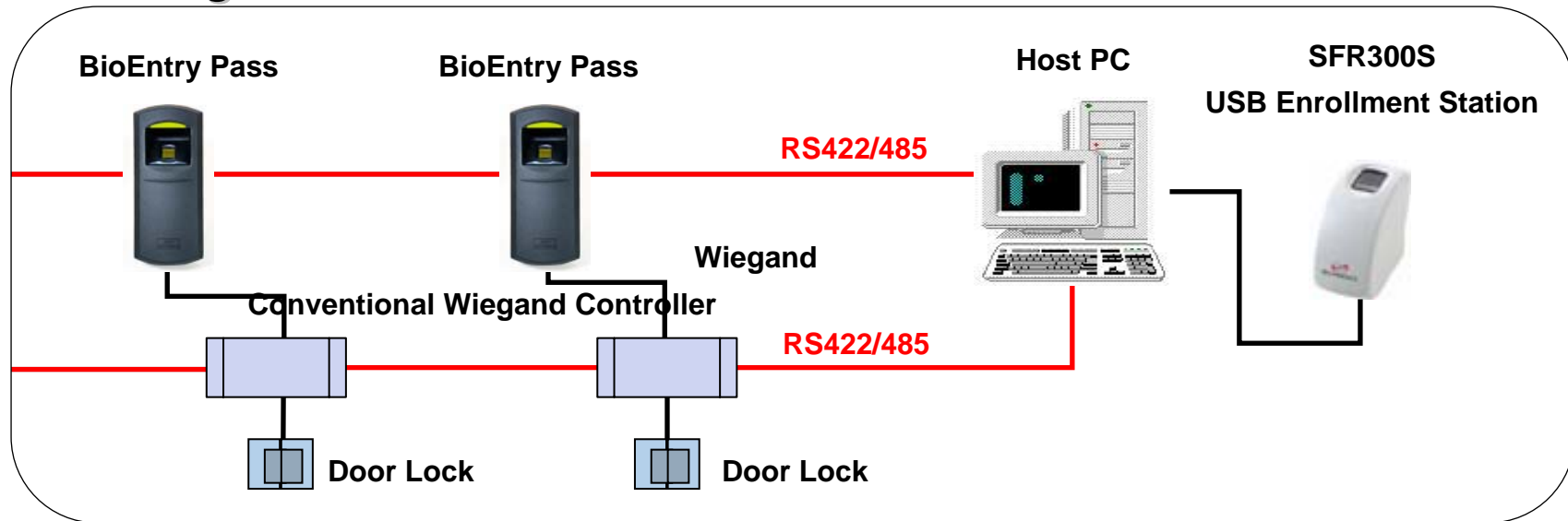
Touch finger



Success or fail

# Case 4 : Large Office with Wiegand Controller and BioEntry Pass

## Configurations



## System Components

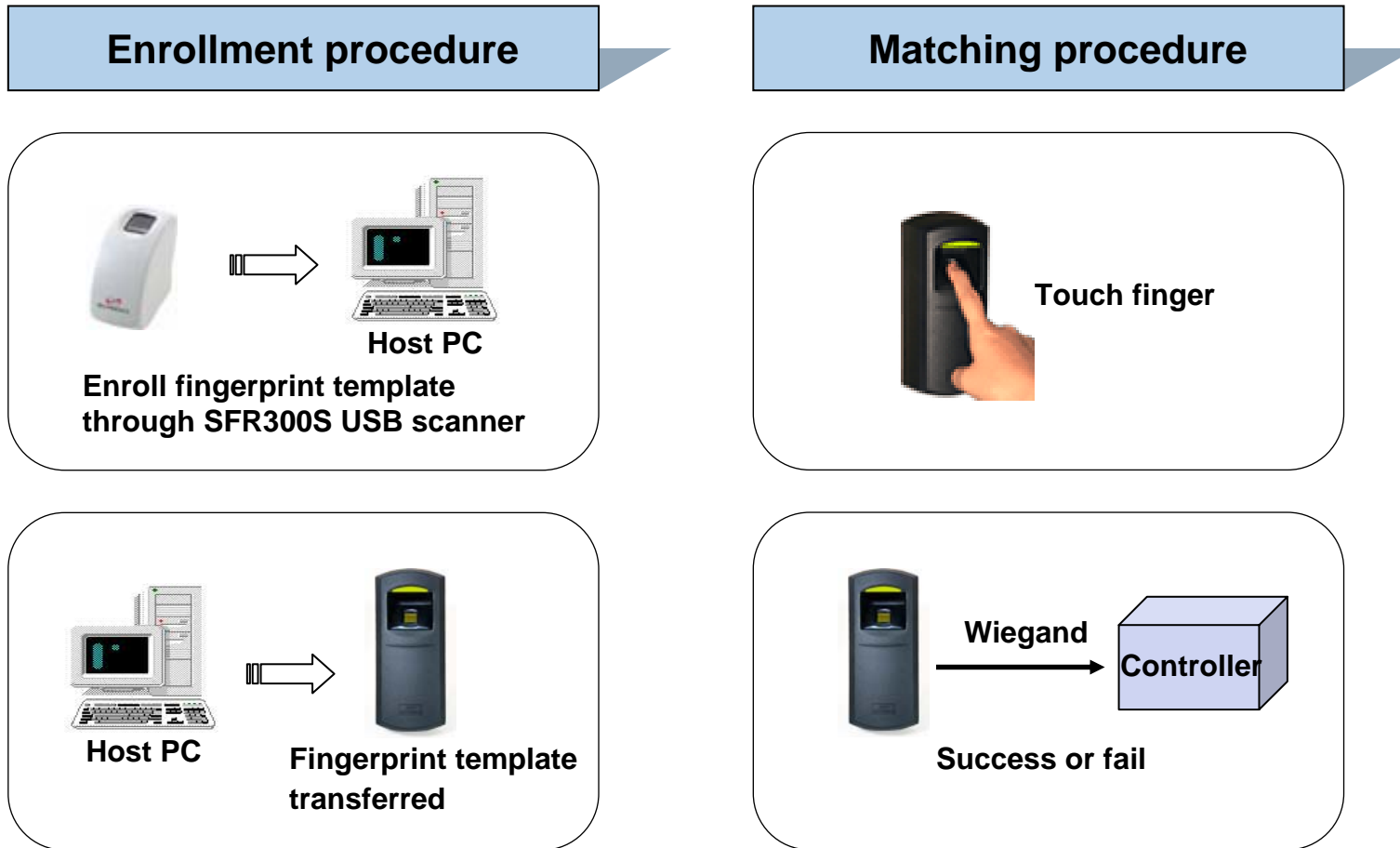
- ⊙ BioEntry Pass reader, conventional Wiegand controller, electric door lock, Host PC

## Features

- ⊙ Compatible with conventional access controllers through Wiegand interface
- ⊙ Simple one-touch operation – no more keys, cards, or PINs
- ⊙ Template capacity : 9,000 templates at 4MB flash
- ⊙ Versatile control functions supported by a BioAdmin software on a host PC

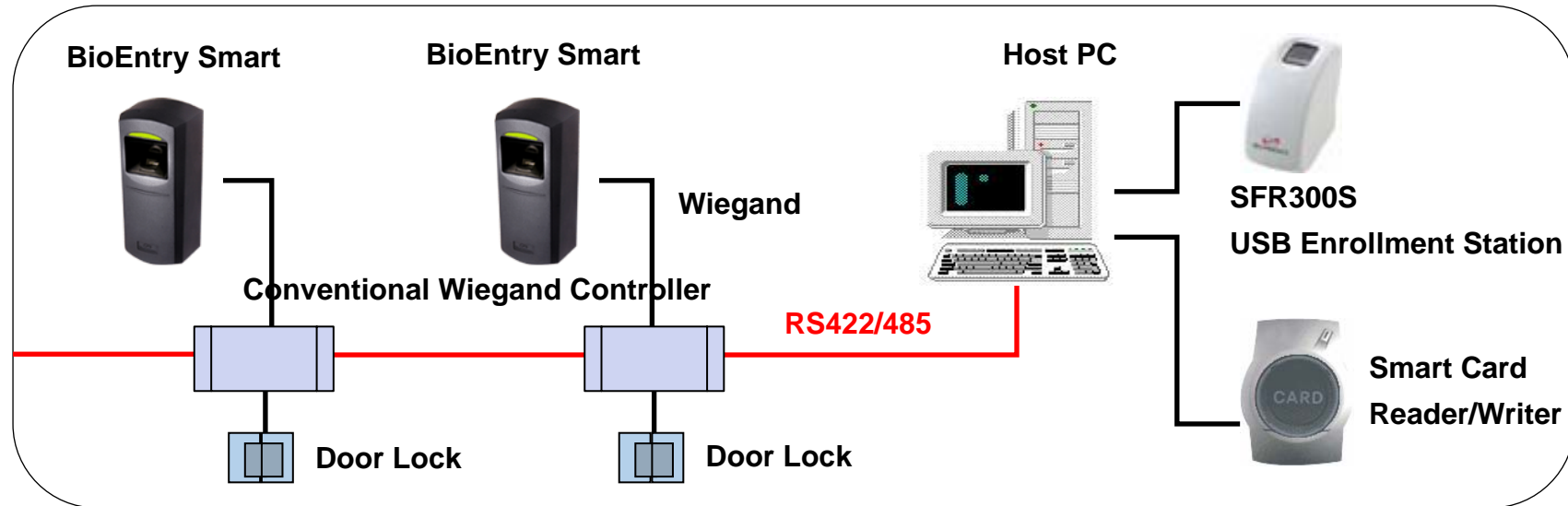
# Case 4 : Large Office with Wiegand Controller and BioEntry Pass

## Operations



# Case 5 : Large Office with Wiegand Controller and BioEntry Smart

## Configurations



## System Components

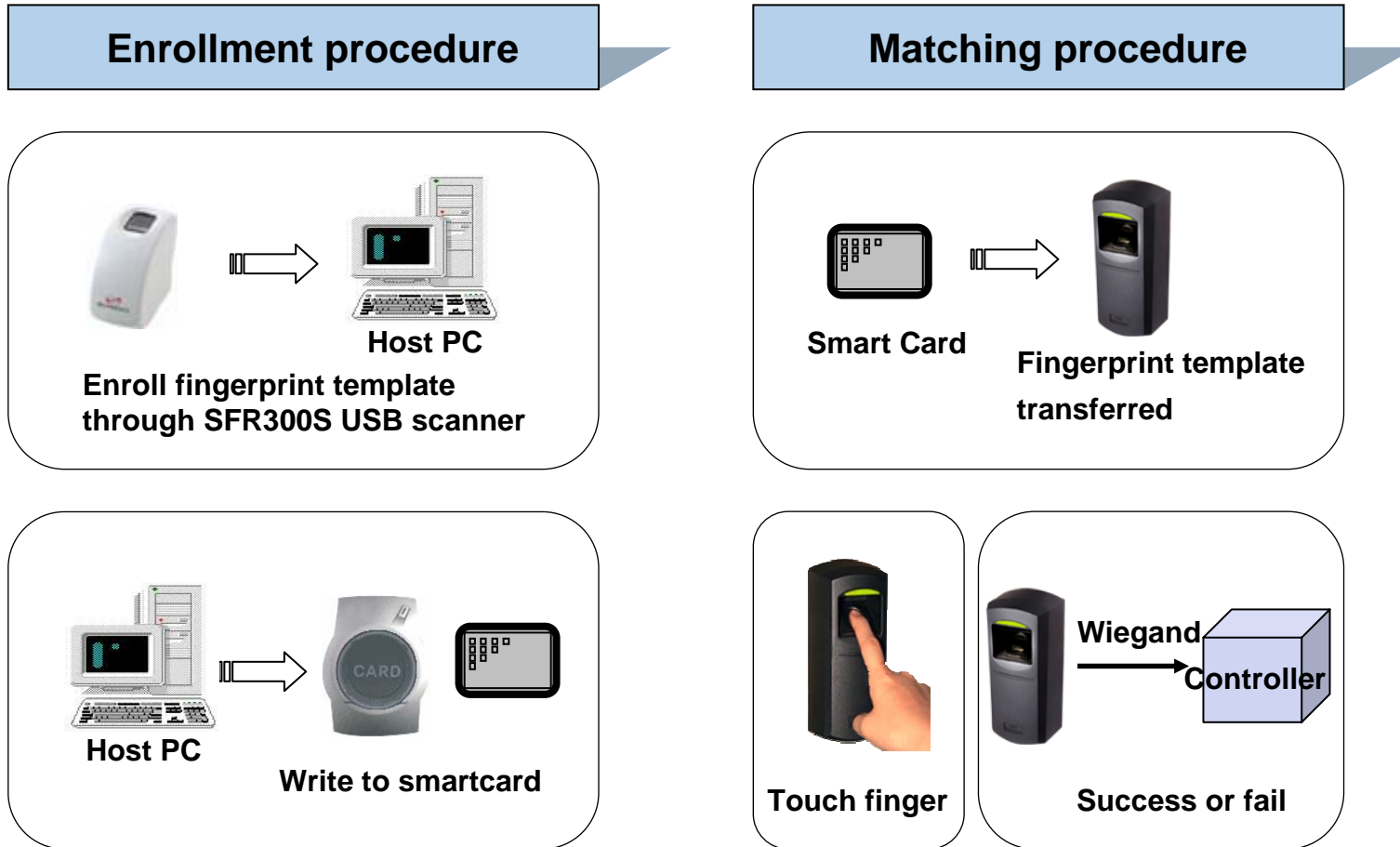
- ⊙ BioEntry Smart reader, conventional Wiegand controller, electric door lock, Host PC

## Features

- ⊙ Instant replacement of existing readers – no additional wiring
- ⊙ Compatible with conventional access controllers through Wiegand interface
- ⊙ Biometric data stored on standard Mifare smartcard - easy registration and no privacy concern
- ⊙ Versatile control functions supported by BioAdmin software on a host PC

# Case 5 : Large Office with Wiegand Controller and BioEntry Smart

## Operations



# Contact Information

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