



Logistics and Supply Chain MultiTech R&D Centre  
物流及供應鏈多元技術研發中心

[www.lscm.hk](http://www.lscm.hk)



Logistics and Supply Chain MultiTech R&D Centre  
物流及供應鏈多元技術研發中心



# Provisioning Authorized Data for Access Control using iAM Smart

使用「智方便」提供授權數據進行存取控制



**60+**  
Industry Associations

**250+**  
Licensing, Contract and Sponsoring Partners

**400+**  
University R&D Personnel

**1600+**  
Industry Members

# Universities Collaboration since 2011



香港大學  
 THE UNIVERSITY OF HONG KONG



香港中文大學  
 The Chinese University of Hong Kong



香港科技大學  
 THE HONG KONG  
 UNIVERSITY OF SCIENCE  
 AND TECHNOLOGY



THE HONG KONG  
 POLYTECHNIC UNIVERSITY  
 香港理工大學



香港城市大學  
 City University of Hong Kong



香港浸會大學  
 HONG KONG BAPTIST UNIVERSITY



香港教育大學  
 The Education University  
 of Hong Kong

In the past **10 years**, LSCM endeavours to work with various **local Universities** to **build up** the **ecosystem** of **INNOVATION TECHNOLOGIES**

- **70 Projects were Conducted**
- **Near \$400,000,000 Total Project Costs**
- **Over 30 Research Teams**
- **Cooperating with over 50 SME and start-ups**



## 創新科技及工業局局長 孫東教授：

「LSCM 主要定位為公共科技服務中心」

“LSCM is a R&D Centre focusing on the development of applied technology to serve the needs of the public and the industry,” said Prof Dong Sun, SITI

---

# Solution Overview



iAM Smart & use  
biometric  
verification to  
access the system



Mobile App  
Generated QR Code



One-time QR Code  
Generation

Request to  
access



Scan the QR Code

# Features

- One time use ANIMATED QR Code with time limitation
- Encrypted and decryption QR Code messages
- Support offline mode
- Standardize QR Code message for third parties' data capturing



# Current Issues

- Eye Checking the ID Card
- Difficult to identify the ID card

三昔日東方 2018年04月19日 返回今日

要聞港聞

銀行核對身份僅靠目測

推介 0 分享



港澳新聞

九龍站有信號故障 高鐵列車服務受阻

銀行致電入境處查ID 踢爆男女持假證攞錢

2015年12月04日(五) 20:28

推介 0 分享



持假証男女持現金支票到銀行攞錢被踢爆。(夏國威)

# Privacy Concerns

- Show ID card to security
  - more information will be shown
    - DoB
    - ID card number
  - Higher chance loss personal information



## 保安只准登記訪客身份證 私隱公署：違反私隱條例



私隱專員公署建議，物業管理公司考慮以其他方法代替登記訪客身份證號碼。(資料圖片)



## 大廈保安要外賣員出示身份證屬違規

2022-06-14 08:23:50 香港

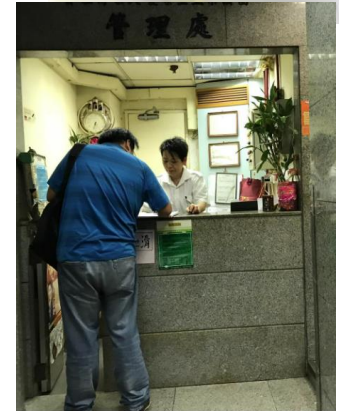


個人資料私隱專員公署昨日發表4宗涉及物業管理公司的投訴調查報告及更新《保障個人資料私隱—物業管理界別指引》。香港文匯報記者攝



# Potential Use Cases

- High security setting requiring a full set of personal data
  - Personal verification involves collecting and verifying **all** available information about an individual, including full name, date of birth, and number
  - Industries where the highest level of security and compliance with regulations is necessary.
    - Access to data centers
    - Personal registration (Sim Card/ Estate's resident)
  
- Lower security setting requiring a partial set of personal data
  - Personal verification involves collecting and verifying only a **limited** amount of information about an individual, such as the HKID 4-digit, initial, and date of birth (without the year)
  - Industries where a lower level of security is required,
    - Courier services
    - Property management



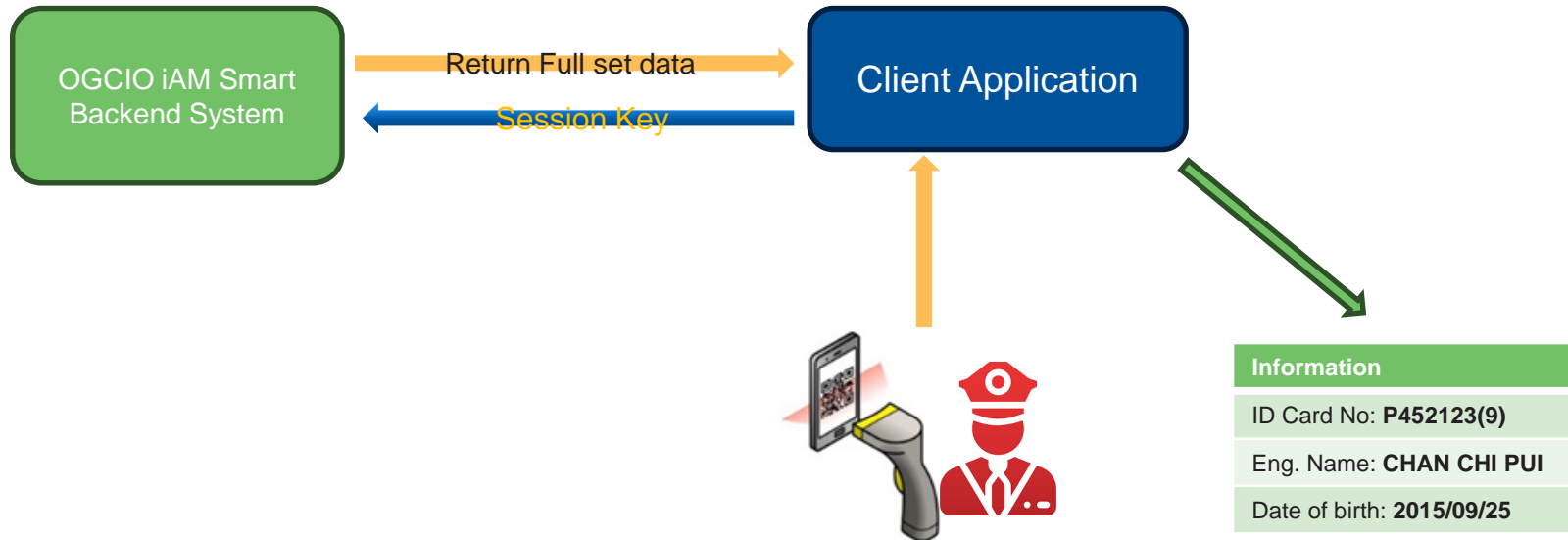
## Scenario 1 – Full Data

QR code contains **Full** data set of personal verification



- The user does not need to show his/her ID card or other personal information to prove his/her identity.
- Additional way to systematically way verify user identity
- Less human error during data input and verification
- Better privacy protection and accountability

## Scenario 1 – System Flow



## Scenario 2 – Partial Data

QR code contains **Partial** data set of personal identification



- The user does not need to show his/ her ID card or other personal information.
- Limited personal data about an individual minimizes privacy concern



Logistics and Supply Chain MultiTech R&D Centre  
物流及供應鏈多元技術研發中心

[www.lscm.hk](http://www.lscm.hk)

# Thank You!

LSCM  
Website



LSCM  
Facebook

