MOBILE VIRTUAL CARD APP

FEATURES

- Mobile APP supports Bluetooth and QR Code technology at the same time
- Scramble QR code: Access QR code scrambles every 5 seconds to preventing others copying
- Bluetooth : Three operation mode : Button , Shaking and Hands-free
- Can access doors , turnstile , lift , washroom , car park , locker , and different facilities, etc.
- Environmental friendly and sustainable as reduce card production and waste
- Hygienic solution as totally contactless
- Android and iOS available

Mobile Virtual Card APP

SCRAMBLE QR CODE

- Access QR code changes in every second to prevent being copied
- Adjustable screen captured QR code validation time, default 5 seconds

BLUETOOTH

- Three operation mode: Button, Swing and Hands-free
- Use define active scan range for individual operation mode
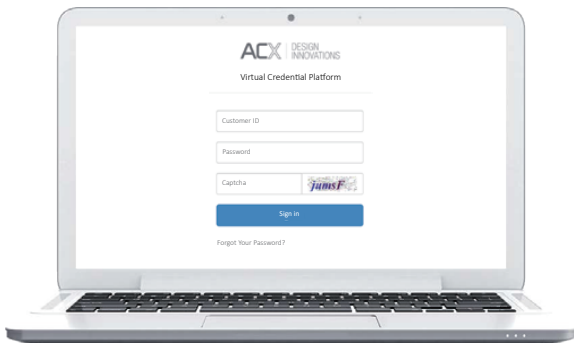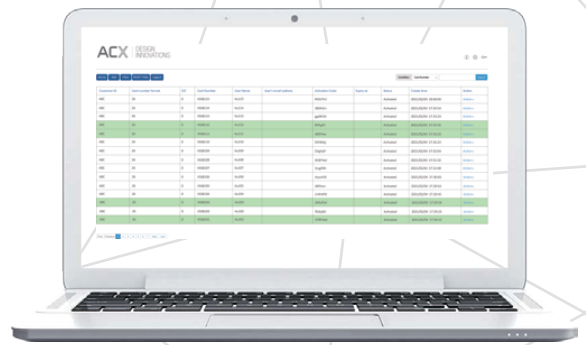

Scramble QR Code Access

Bluetooth Access

OPERATION FLOW

Admin login in web platform
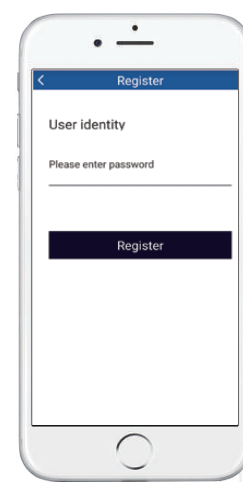

Create virtual card for user

User download
Virtual Card App

User received card
activation code via email

User can access via
mobile virtual card

User enter
activation code
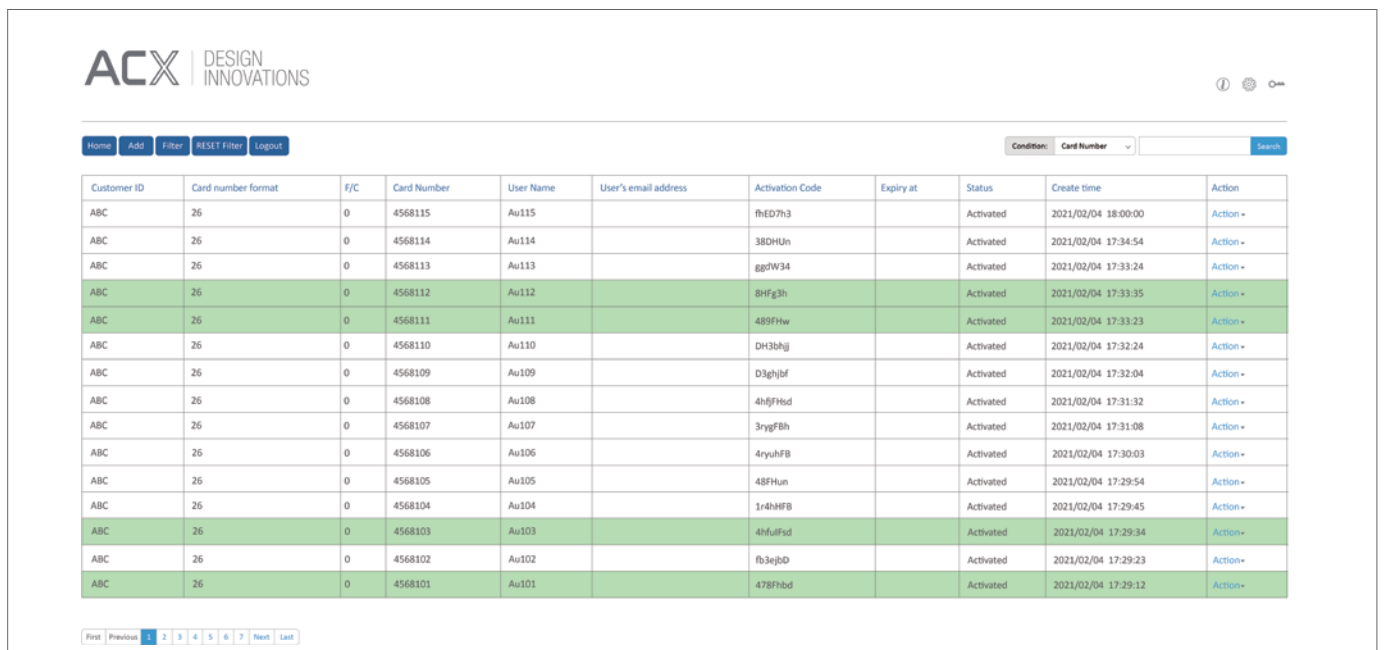
ACX VIRTUAL CARD PLATFORM (VCP)

INTRODUCTION

ACX Virtual Card Platform is a web based application which can be installed on internet or intranet. Admin can create, delete, expire and re-use the virtual card.

The unique activation code will be sent to user by email. Once entered the activation code in the ACX mobile virtual card APP, user can access with Bluetooth or Scramble QR Code.

FEATURES

- VCP is a WEB based application on internet or intranet
- Admin password for operation
- Engineer password for Bluetooth reader configuration
- Virtual Card number has expiry date
- Virtual Card number can be re-used
- On-line record by different filter conditions
- Max. 64 bits card number length and any card number format
- Unique activation code for each virtual card number generation

OPERATION SCREEN

Admin can edit, delete, deactivate, reuse and copy virtual card in the virtual card web platform.

TECHNICAL SPECIFICATION

Technology	NFC	Bluetooth	Fixed QR	Scramble QR
Contactless	RFID		Image	
Frequency	13.56MHz	2.45GHz	NA	
Data Communication	Peer to Peer		Single way	
Data Security	Secure on communication, random key encryption		Not Secure	Secure on the QR image changes in every second
Min. Scan Range	1cm- 2cm	0.5meter	2cm- 4cm	
Typical Scan Range	3cm- 7cm	1meter- 3meters	4cm- 20cm	
Max. Scan Range	10cm	5meters	2meters	
Scan Range Adjustable	NA	Mobile & Reader	NA	
Application Advantages	(Short Range) Door Access, Lift Access	(Short, Middle & Long Range) Door Access, Lift Access, Carpark	(Short, Middle Range) Door Access, Lift Access, Carpark	
Mobile Hardware Limitation	The mobile must have NFC feature, some iPhone OS cannot support NFC	Different Bluetooth chip set performance on different Andriod mobile manufacturer is different. iPhone Bluetooth performance is good.	No Limitation	
Response Time	Less than 0.2 sec		Less than 0.1 sec	
Run on Background Mode	CAN		CANNOT	
When Access	Turn on APPS			
Use Mobile Internet Data	NOT NECCESSARY			
ACX Mobile APPS Advantages	Combines NFC, Bluetooth & Scramble QR code technology in the same mobile apps			