WEBINAR

Suprema Mobile Access

Speaker

Dwayne Neufville
UK & Ireland Technical Team Lead Manager at Suprema

Contents

1. What is Suprema Mobile Access?

- General Information
- BLE vs NFC
- Supported Devices

2. Overall Process

- HW Installation
- How to configure with AirFob Portal (Cloud Portal)
- AirFob Patch (Moca Systems)
- Dynamic & Regular License

3. Why Mobile Access (Pre-Sales)

- Cost
- Security
- Covid19
- Access Control Management

4. Potential Customer Cases

- Partner Portal
- Fitness Customer Cases
- Integration

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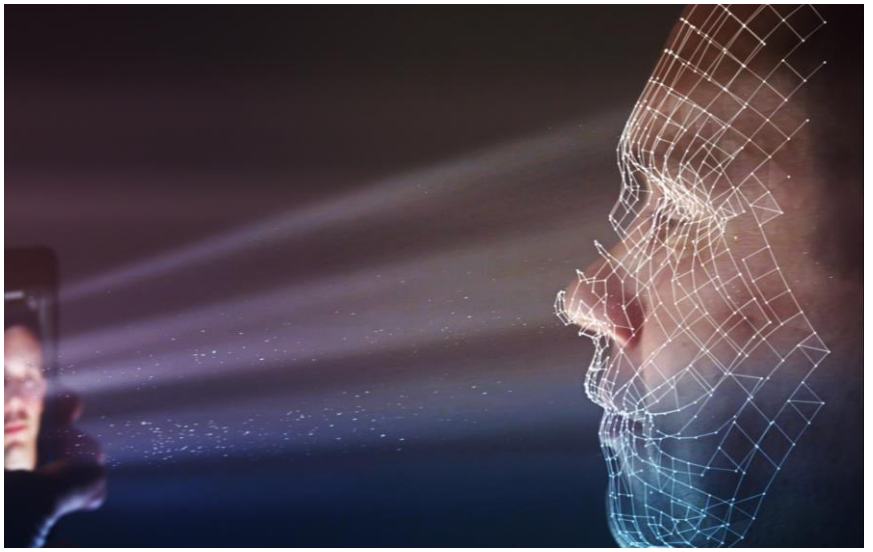
Who we are

- Suprema is a leading global provider of biometrics and security.

By combining world renowned biometric algorithms with superior engineering, Suprema has introduced several technology initiatives and innovations to the security industry over the last couple of decades.



South Korea
Headquarter

270
Number of Employees

2000
Year Established

Top 50
World's TOP 50 Largest Security Company
*A&S Security 50 Ranking (2010-2019)

US$85 million
Annual Turnover (2019)

13%
Average Growth Rate (CAGR 2009-2019)

US$250 million +
Market Cap (2019) - KOSDAQ

120+
Countries active through Authorized Partners

1st
EMEA Market Share of Biometric Access Control
*IHS Report

Access Control & Time Attendance software with powerful functionalities and features

Product

The best in biometrics and security

Suprema provides comprehensive security solutions for security.
Whatever you're looking for, you'll find a Suprema's products to suit your needs. From robust outdoor Biometric Readers to discreet products for sensitive environments, we offer it all.

Distributed System (Edge-Readers)

Centralized System (Control Panel)

Hardware

Suprema's Most Popular Products

- Brand New Generation 2 Devices
- Faster, Smarter and Redesigned
- Facial Biometrics + Fingerprint Biometrics

BioStation 2

BEW 2

FaceStation 2

FaceLite

BioEntry Plus 2

BioLite N2

Suprema Mobile Access

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BioStar 2

Major New Updated Items

New Features of BioStar 2 2.7 / 2.7.14 v

Released in April 2020

- Suprema Mobile Access
- Enhanced Security Settings – Code Signing
- Enhancement In Mobile Access Usage
- New Device Support: Xpass D2 (Rev 2)
- Airfob Patch
- CoreStation Supports the FS2 as Slave Device
- 'Specific Devices "Only Devices / Access Group" Option'
- Enhancement In Suprema Mobile Credential (Access) Usage

1. WHAT IS THE SUPREMA MOBILE?

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WHAT IS THE SUPREMA MOBILE?

Suprema, has announced the release of it's new mobile contactless solution, 'Suprema Mobile Access', a complete platform for managing, issuing and tracking Access credentials using smartphones. In recent years, access control systems have evolved beyond physical access cards and access control solutions using a mobile phone as a credential was introduced as an alternative to traditional card-based authentication.

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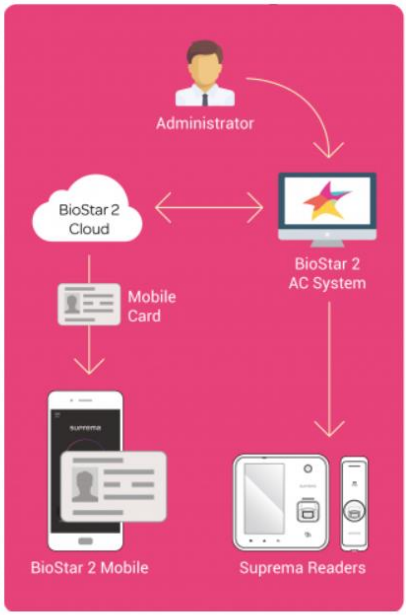
BioStar2 Mobile Card vs Suprema Mobile Access

BioStar 2 Mobile Card is a feature of BioStar2 Mobile App.

- We have decided to discontinue the BioStar 2 Mobile Card at the End of September 2020.
- Please Understand the BioStar 2 Mobile App will still supported:
  1. User Management.
  2. Log Management
  3. Door Management



BioStar 2 Mobile Card

Suprema Mobile Access

The New Suprema Mobile Access is expected to outperform on every aspect,

https://support.supremainc.com/en/support/solutions/articles/24000050338--biostar-2-what-is-the-difference-between-biostar2-mobile-card-and-suprema-mobile-credential

https://support.supremainc.com/en/support/solutions/articles/24000050105--biostar-2-difference-between-biostar-2-mobile-card-and-suprema-mobile-credential

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GENERAL INFORMATION

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GENERAL INFORMATION

How Card ID of Suprema Mobile Access Generated Is?

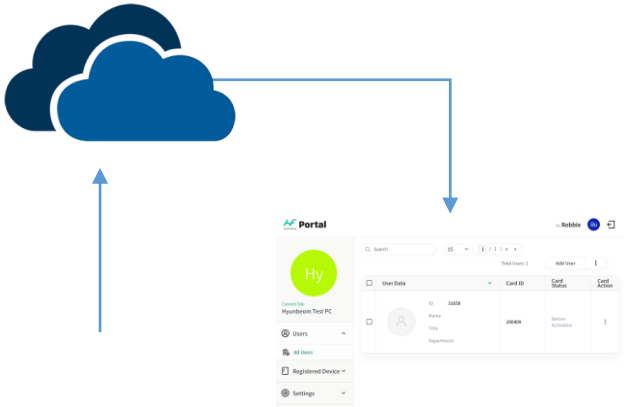
General Cards

- EM Card, Mifare Card, DESFire Card
HID Prox Card, HID iClass Card

Generated Number by manufactures

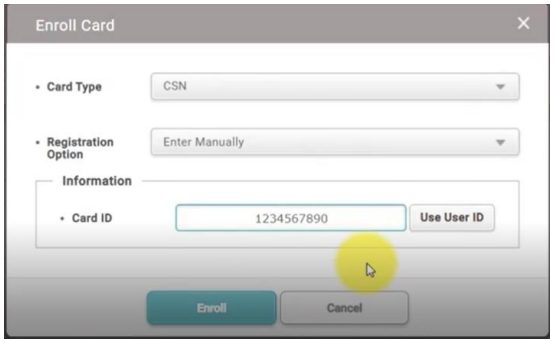
Airfob Pass

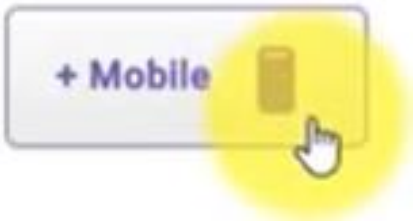
Generated Number by BioStar 2 administrator (synchronized to Airfob Portal)



Supported Card ID Type
- CSN (Private ID)

Upcoming features
- Wiegand
- ASCII (TEXT Value)





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System Configuration (FAQ)

Q1) Suprema Mobile Access can be applied with Centralized Solution or only distributed solution?

You can use it to Centralized System or, you can use it to Distributed System also.

Q2) If I install two readers to In and Out for a door, there will be an issue to open the door?

BLE strength is measured very differently. So, when you tag your reader from outside, it does not work to the inside reader.

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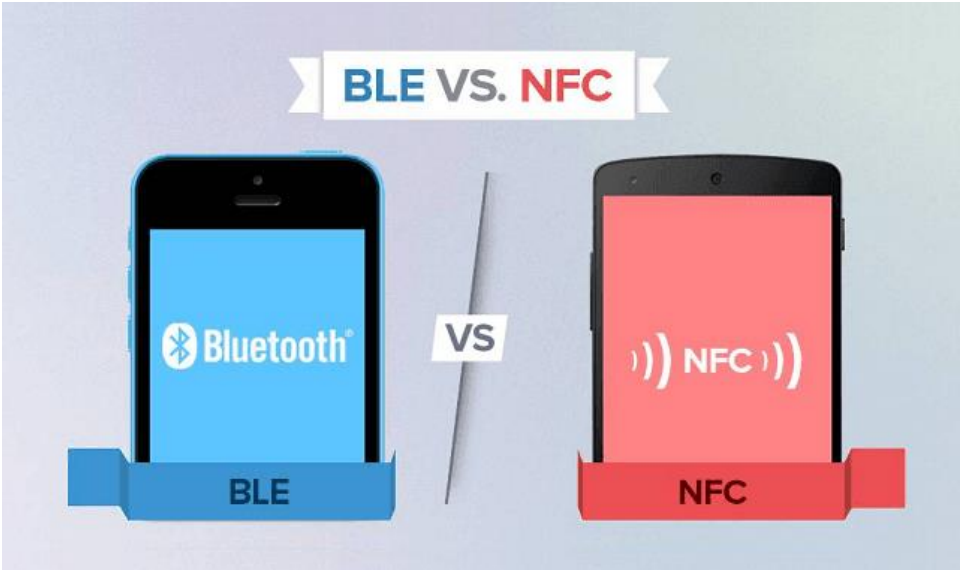
BLE vs. NFC



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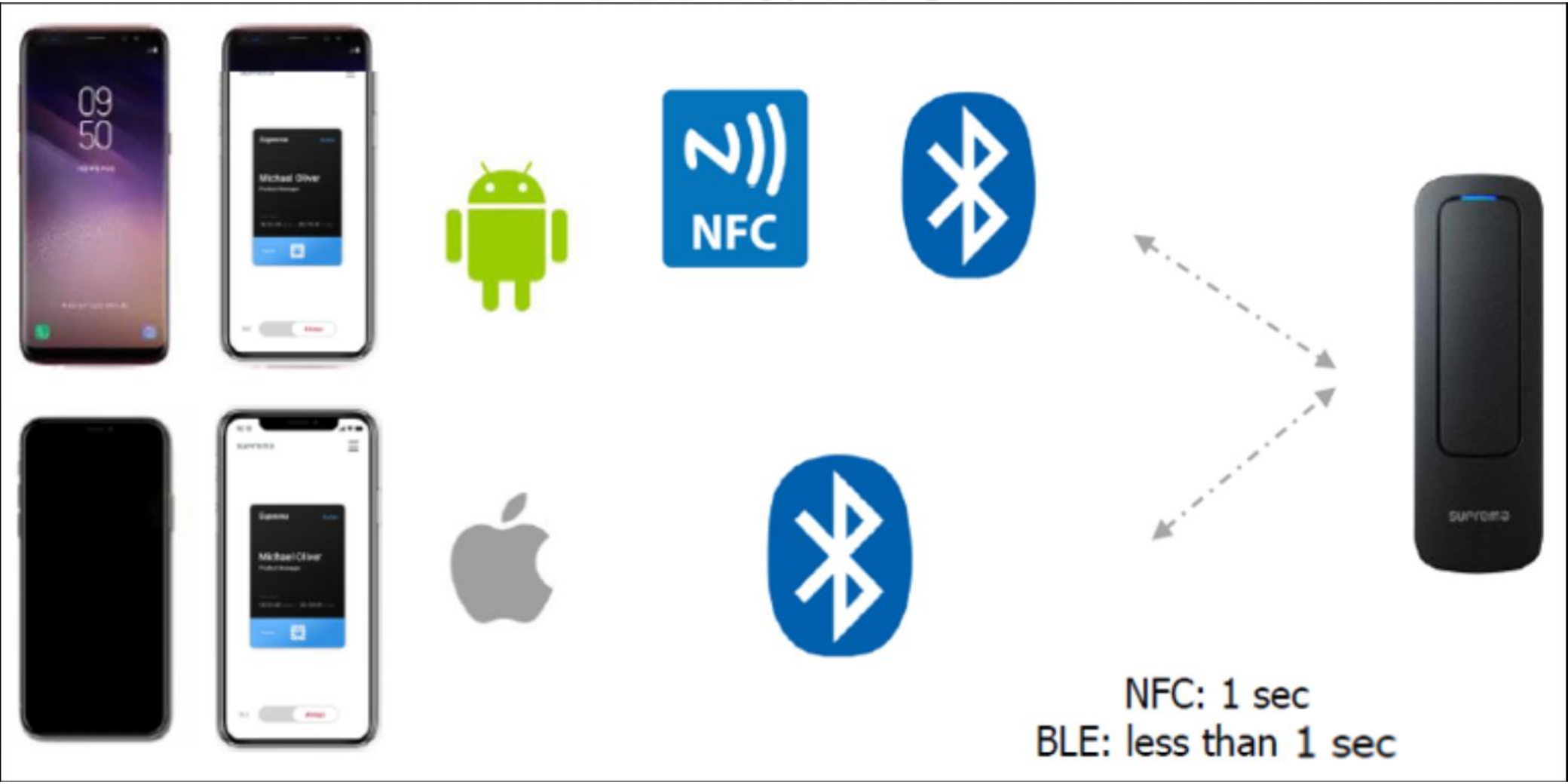
BLE vs. NFC



On the device side, patented technology will be included to significantly improve the performance of BLE communication to make credential read as quick and consistent as a regular card across Android and iOS devices.

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NFC is Fast & Reliable

But, Many NFC HCE Unsupported Devices

Manufacturer	Model Name	NFC	BLE
Samsung	Galaxy S5 LTE-A	X	O
Samsung	Galaxy Alpha	X	O
LG	LG V30	X	O
LG	LG G6	X	O
LG	LG G5	X	O
LG	LG G4	X	O
LG	LG Wine Smart Jazz	X	O
LG	Google Nexus 5	X	O
LG	Google Nexus 5x	X	O
HTC	HTC One M8	X	O
HUAWEI	Huawei P20 Pro	X	O
HUAWEI	HUAWEI P10 Plus	X	O
HUAWEI	HUAWEI Honor 6X	X	O
ZTE	ZTE BLADE V8	X	O
Xiaomi	Xiaomi Mi A1	X	O
Xiaomi	Hongmi Note3 Pro	X	O
SONY	Xperia XZ Premium	X	O
SONY	Xperia Z2	X	O
Motorola	Moto E4	X	O

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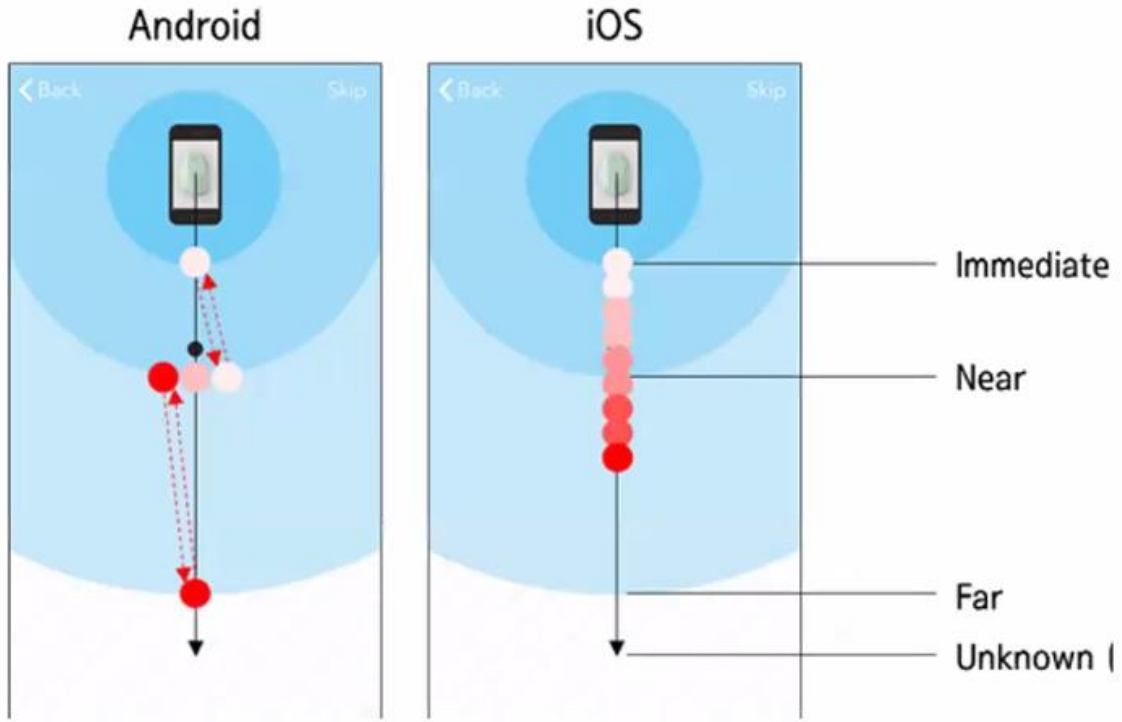
BLE vs. NFC

BLE is Optimum & Universal Method

But, it's much more difficult,

because BLE signal strength is irregular in Android



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BLE vs. NFC

iPhone & Android DEMO (BLE & NFC)

THE EASIEST WAY TO START MOBILE ACCESS

iPhone (BLE) **Android (BLE)** **Android (NFC)**

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SUPPORTED DEVICES

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SUPPORTED DEVICES

The only device that supports the Suprema Mobile Credential is the XPass 2.
The support plan for other Generation 2 Devices will be done step by step and here we share the plan by device type and target date.

		BioStar 2 Mobile Card	Suprema Mobile
Application	Name	BioStar 2 Mobile	Airfob Pass
	Image		
Card Type		Smart Card (Secure Credential / Access on Card)	CSN Card
Issue from		BioStar 2 Server(PC) BioStar 2 Mobile Application	BioStar 2 Server(PC) Airfob Portal
OS	Android	Android 5.0 (Lollipop) or above	Android 6.0 (Marshmallow) or above
	iOS	iOS 9.0 or above	iOS 11.0 or above
Protocol	Android	BLE / NFC	BLE / NFC
	iOS	BLE	BLE
BioStar 2 Version		BioStar	BioStar 2.7.12 and above
Supported Device Lists		Xpass S2 Xpass D2 BioStation 2 BioStation A2 BioStation L2 BioEntry W2 FaceStation 2 FaceLite BioLite N2 **BLE is supported ONLY the device model has 'B' at the end of the name.*	XPass 2 (*January, 2020*)

Product Name	Method	Date
XPass 2	BLE/NFC	Available
XPass D2	BLE/NFC	**May 2020**
BioLite N2	BLE/NFC	**May 2020**
BioEntry W2	BLE/NFC	**2Q 2020**
FaceStation F2	BLE/NFC	
FaceStation 2	BLE/NFC	
FaceLite	BLE/NFC	
BioStation 2	NFC	
BioStation A2	NFC	
BioStation L2	NFC	
BioEntry P2	NFC	
BioEntry R2	NFC	

XPass 2

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SUPPORTED DEVICES

Support for Connecting Upcoming Devices – XPass D2 (Rev 2)

✓ Upgraded XPass D2 hardware to use Suprema Mobile Access(Credential).

There is a blue mark on the device

Xpass D2 (Rev2) 865888870

<XPass D2 (Rev 2)>

Xpass D2 865887088

<XPass D2>

✓ Supporting firmware of XPass D2 (Rev 2) : **v1.4.0**

✓ To connect XPass D2 (Rev 2) as *RS-485 Slave*, need to check Master device's firmware compatibility.

- **The compatible FW of RS485 master device** now is **XPass 2 v1.2.0 ONLY**. (April 2020)

*** Notice**

- Other compatible Master devices' firmware will be released in **2Q 2020**

https://support.supremainc.com/en/support/solutions/articles/24000054221--biostar-2-upgraded-hardware-introduction-xpass-d2-rev-2-

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BREAK TIME

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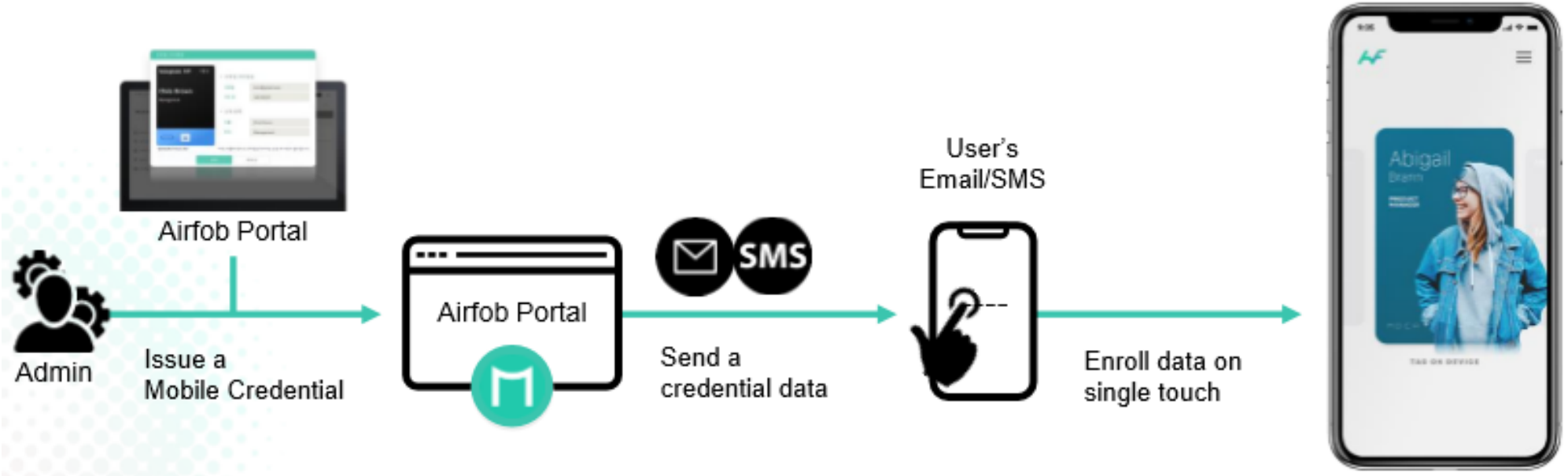
2. OVERALL PROCESS



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Suprema

Mobile Access Requirements

Minimum Requirements

1. Requirements of Mobile devices

Android OS :

- ★ Android 6.0 (Marshmallow) or later
- ★ NFC or BLE supported

⚠ Although both NFC and BLE on Android devices are supported,
NFC only works on devices that support HCE(Host Card Emulation).
Performance of BLE communication may vary depending on mobile devices.

iPhone iOS:

- ★ Version 11.0 or later
- ★ BLE supported

2. Compatible devices and firmware

Suprema Mobile Credencial only supports XPass 2 with firmware listed below

- ★ XP2-MDPB Firmware 1.1.0 or later
- ★ XP2-GDPB Firmware 1.1.0 or later
- ★ XP2-GKDPB Firmware 1.1.0 or later

[SUPREMA MOBILE ACCESS] Register a Device via APP

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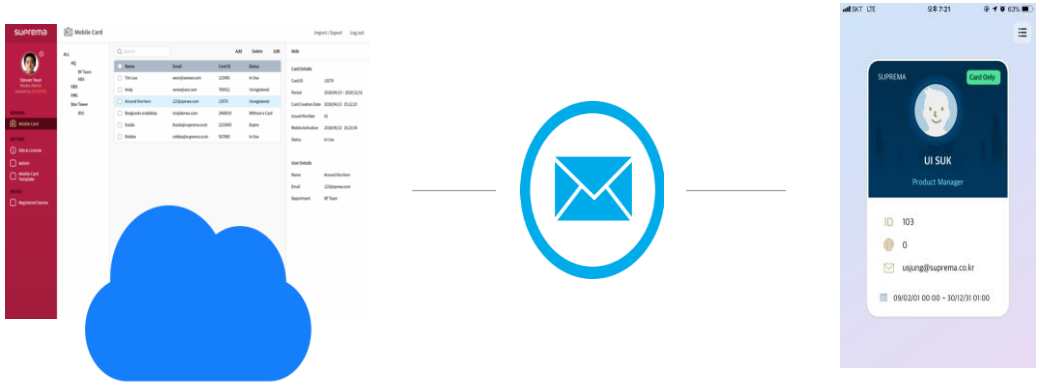
Simply create mobile card
Invite through email



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2. OVERALL PROCESS

Overall Process

Suprema Mobile Credentia app transmits a designated card ID (managed through the portal s ite) to the registered devices.

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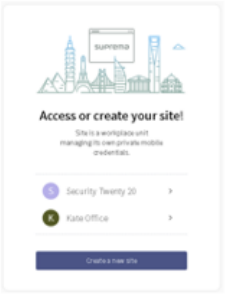
How to Use – in BioStar 2.7.12

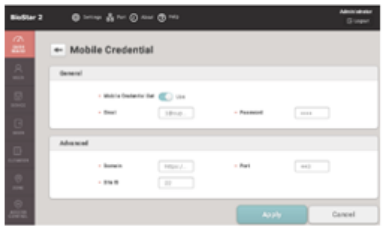
- **Overall Procedure**

1. Join Airfob Portal



2. Register a device on Airfob Pass App

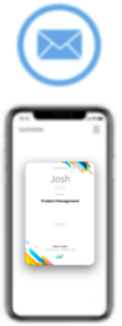
3. Configure Airfob Portal information to BioStar 2 Settings



4. Add the device to BioStar 2

5.1 Add a user with an email and card number

5.2 Confirm the email on a mobile
5.3 Activate Mobile Access



6. Authenticate the Mobile Access on the device

https://support.supremainc.com/en/support/solutions/articles/24000050101--biostar-2-sample-steps-of-suprema-mobile-credential-for-running-biostar-2-with-xpass-2-

https://support.supremainc.com/en/support/solutions/articles/24000050048--biostar-2-how-to-use-suprema-mobile-credential-

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How to Use – from BioStar 2.7.14

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HW INSTALLATION

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HW INSTALLATION

System Diagram

1. When XPass 2 is used as a reader.

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HOW TO CONFIGURE WITH AF PORTAL

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AIRFOB PATCH

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The biggest obstacle in mobile credential adoption is

All the existing INFRA

Co-entering space
With other companies

Unfinished
Rental Contract Period

High Wiring &
Construction Cost

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AIRFOB PATCH

Airfob Patch is

World's First Patch Type
BLE to RF Converter

***US Patent Registration Fixed**

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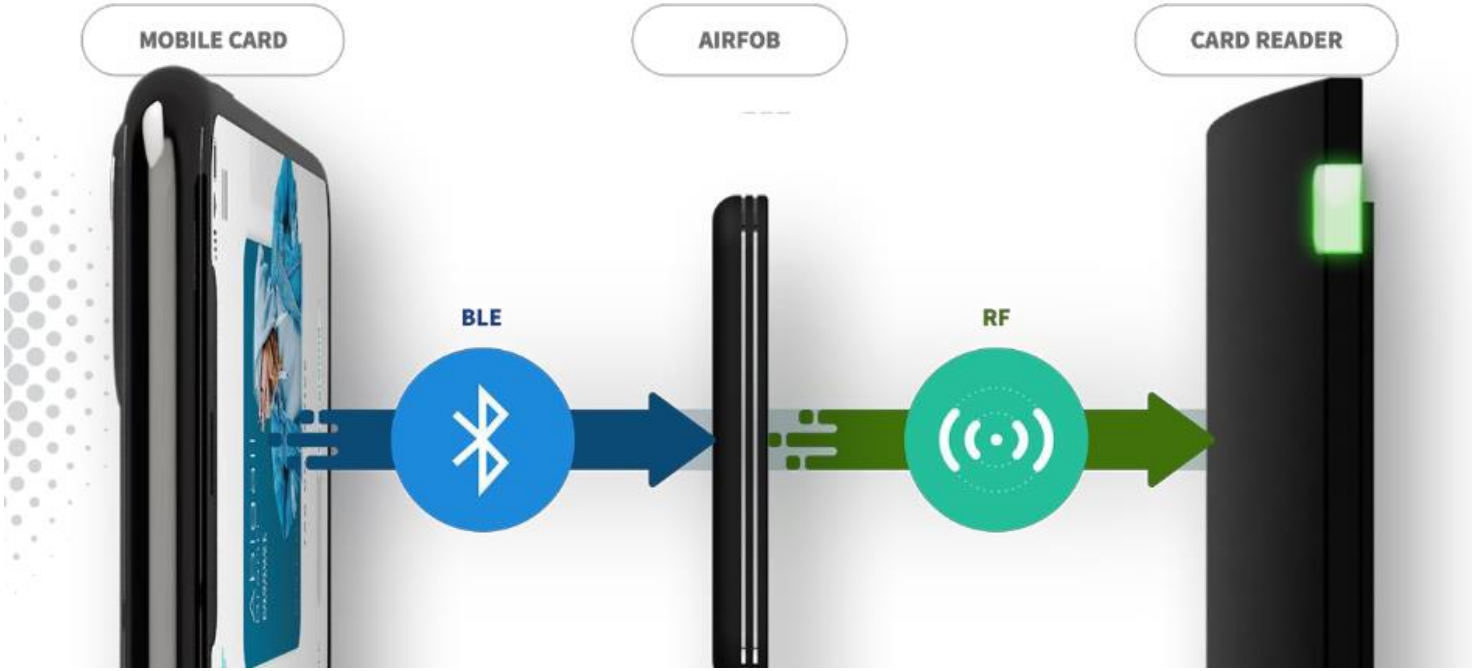
AIRFOB PATCH

Solves the biggest challenge of starting mobile access

Translate Mobile Access to RF Card Signal

Airfob Patch is an add-on converter which translates BLE communication to RF card signal.



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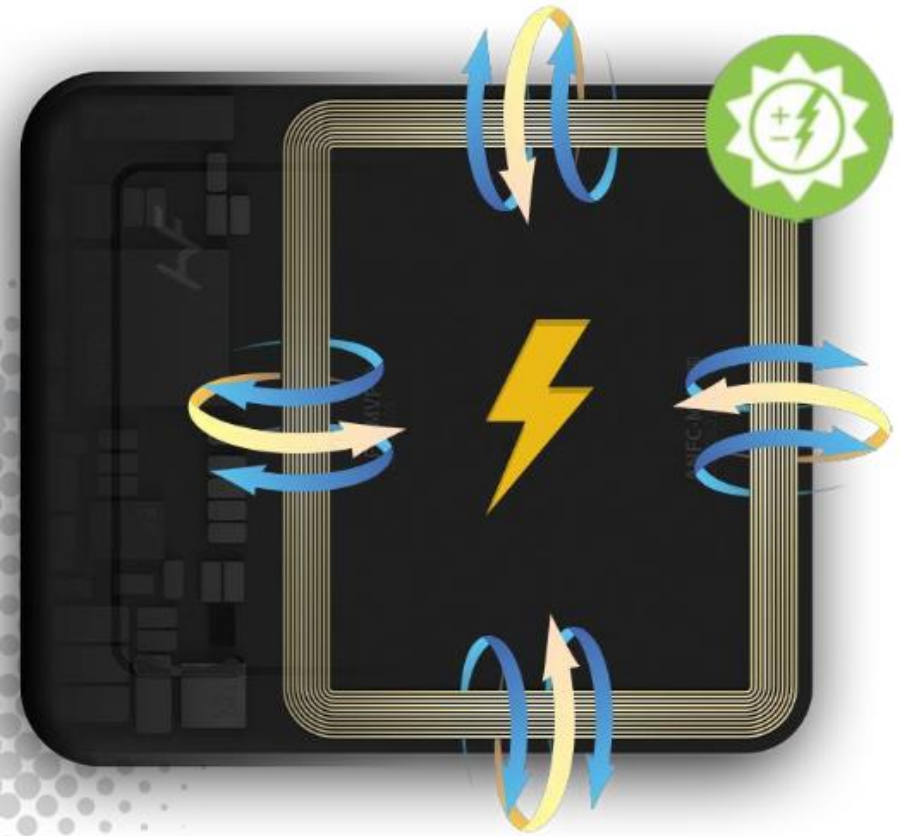
AIRFOB PATCH

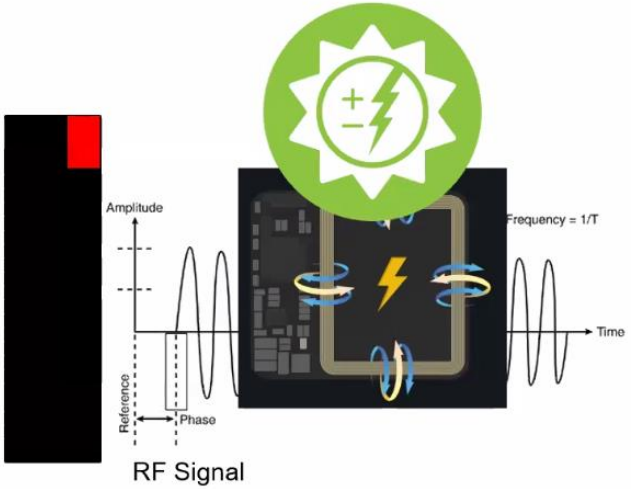
Energy harvesting by itself
No Need of Battery Replacement



Airfob Patch is energized by itself by using the existing RF field signals coming out from the RF reader. It changes the RF fields to be its power-source for its operation.

Energy Harvesting by RF Field Signal

NO Battery Replacement Needed



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AIRFOB PATCH

THE EASIEST WAY TO START MOBILE ACCESS

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AIRFOB PATCH

FEATURES & SPECIFICATION

AIRFOB PATCH SPEC

Features

- Power with no battery
- Energy harvesting
- Wireless communication
- Translator of BLE to RF signal
- No additional construction
- Add on device

Specifications

Energy supply	13.56MHz RF energy harvesting
Size	30 x 30 x 5 (W, H, D, mm)
Wireless communication compatibility	BLE
Card compatibility	Mifare CSN / Smart card (NFC APDU LEVEL)
LED	Power status & card emulation
IP rating	IP65 *it can be changed at the initial model

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AIRFOB PATCH

Moca Systems AirFob Product Line-Up

Airfob is for its own service,
And also for 3rd party systems

Airfob Patch
(Coming Soon)

Airfob Edge
(Coming Soon)

Airfob Pass
(Mobile App)

Airfob
In-App SDK

Airfob
Portal
(Cloud Portal)

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AIRFOB PATCH

AIRFOB PORTAL & PASS APP / PARTER PORTAL are already Available and open for everyone.

Airfob.com

Free 50 credits for Regular Card
After one-month credit deduction for Dynamic Card

***Suprema devices support Airfob Portal & Pass App**

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AIRFOB PATCH

AIRFOB PATCH LAUNCHING PLAN

May
1st Pre-launching Event

Giving Out
Free Sample Units
(Selected Partners Only)
For Market Field Test

June
2nd Pre-launching Event

Discount Sales
For Early Testers
(Limited Numbers Only)
For Market Field Test /
Sales Preparation

July
Official Sales Start

MOCA Starts to Sell
Directly to
Customers

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DYNAMIC & REGULAR LICENSE

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Dynamic & Regular Major Difference

	REGULAR	Dynamic
PORTAL	before (PC) before (mobile)	1st RELEASE (PC) 1st RELEASE (mobile)
CARD ACTION	ADD	ADD DELETE PAUSE
APP	before	1st RELEASE
CARD STATUS	BEFORE ACTIVATION ACTIVATED	BEFORE ACTIVATION ACTIVATED DELETING DELETED PAUSING PAUSED EXPIRING EXPIRED

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REGULAR		DYNAMIC	
	Cloud Server		Cloud Server
INTERNET	**One-way** communication	INTERNET	**Subscription sync** communication
	Communication Data • Issue new card • Reissue		Communication Data • Issue new card • Reissue • Delete • Pause • Valid Date

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DYNAMIC & REGULAR LICENSE

1 Credit
Per
1 Device 1 Month

1 Credit
Per
1 Card

INTERNET

Target

Fitness / Membership / Shared Place

Feature

- Unlimited # of mobile card issuance
- Remote Control & Revoke

Communication Data

- Issue new card
- Reissue
- Delete
- Pause
- Valid Date

/*Constant Internet Connection is required for use. (5 mins of disconnecting grace time.)

One Time Connection

Target

Fixed Workers

Feature

- Unlimited time for one mobile card use
- One-time download

Communication Data

- Issue new card
- Reissue

/*Card data can be remained after its download unless users delete the app manually.
Maintenance credit is available for buffer.

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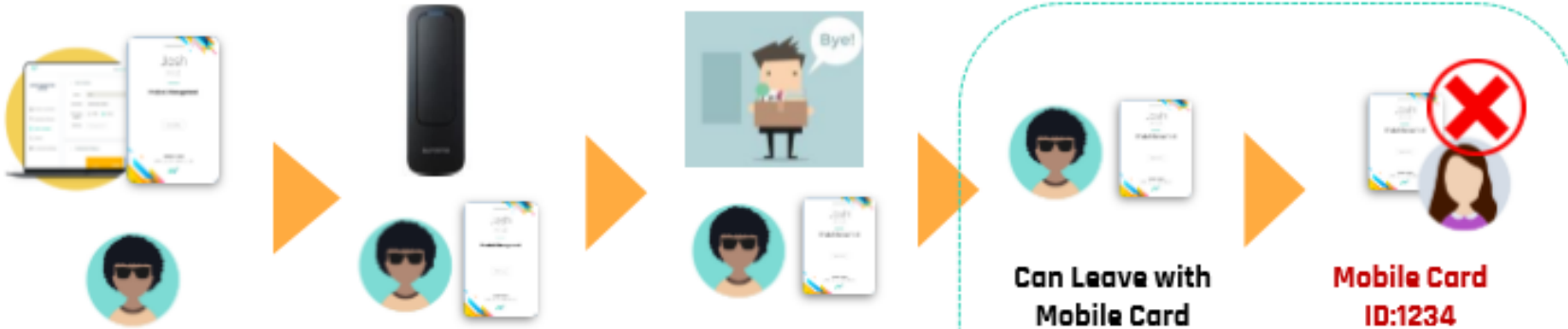
REGULAR

Dynamic & Regular Major Difference

REGULAR



Issue to User A
Card ID: 1234

Use it with
Device

Leave the
company

Can Leave with
Mobile Card
ID:1234
(Because it's not
retrieved)

Mobile Card
ID:1234
Cannot be
reused

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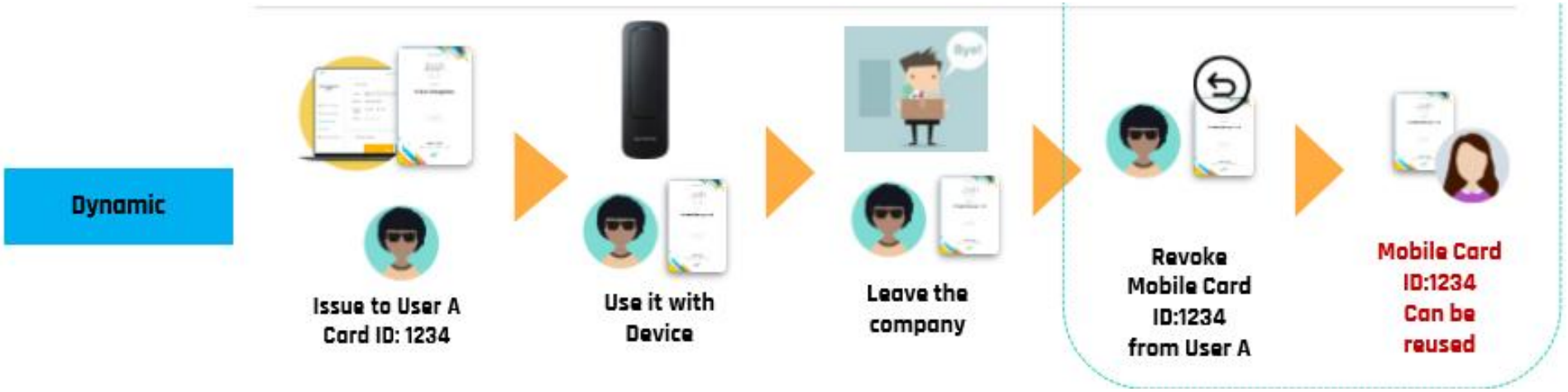
DYNAMIC



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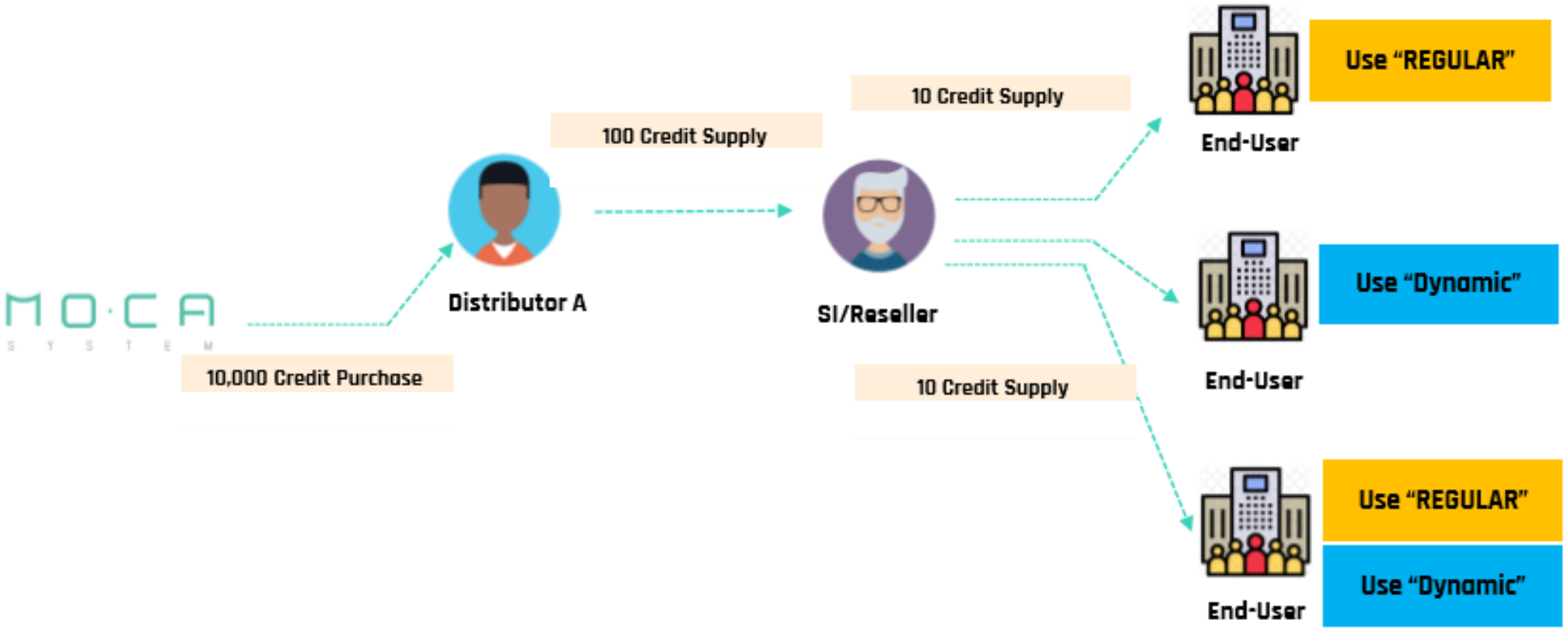
DYNAMIC & REGULAR LICENSE

DYNAMIC or REGULAR

Sell the same credits, and users choose the license mode they want to use



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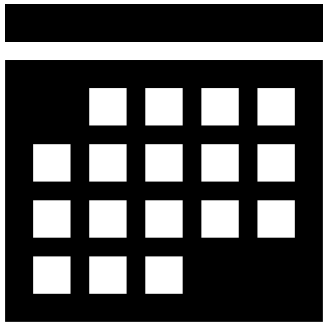
Card Type & License

DYNAMIC

* 1 Credit = 1 Device x 1 Month



X **36** months

X **2** devices
(for In/Out)

= **72** Credits!

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Credit Price & Margin Simulation

End-User Price for RFID Cards:

(with a cardholder & case)

SI/Reseller Margin

>Almost Fixed Margin

End-User Price for Airfob Pass Mobile Access: $Flexible

SI/Reseller Margin

> Flexible Margin

(Case Study) End-User Price for Airfob Pass Mobile Access:

SI/Reseller Margin

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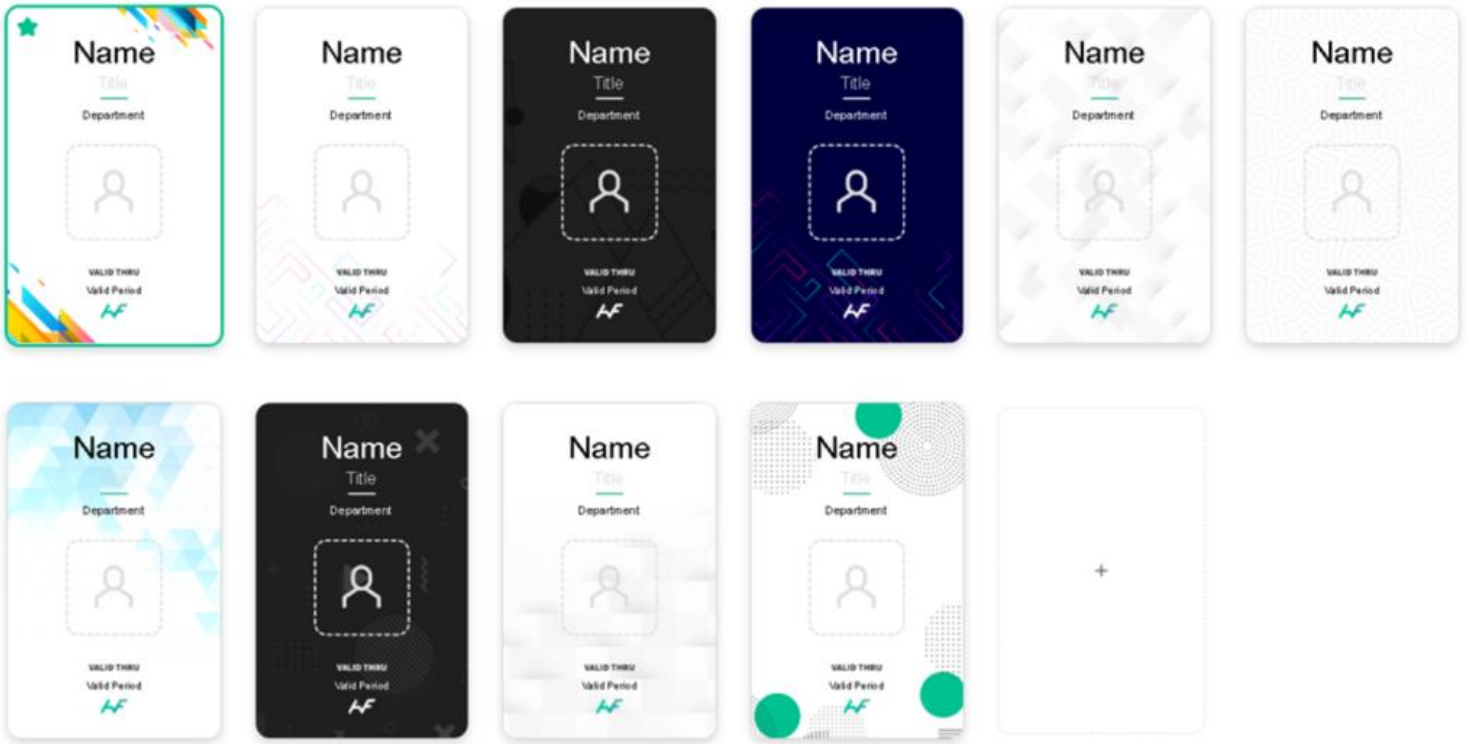
DYNAMIC & REGULAR LICENSE

- **Custom Card Design Support**

➢ **Dynamic** Card License is required currently.
➢ User can add the field of user information on the card.



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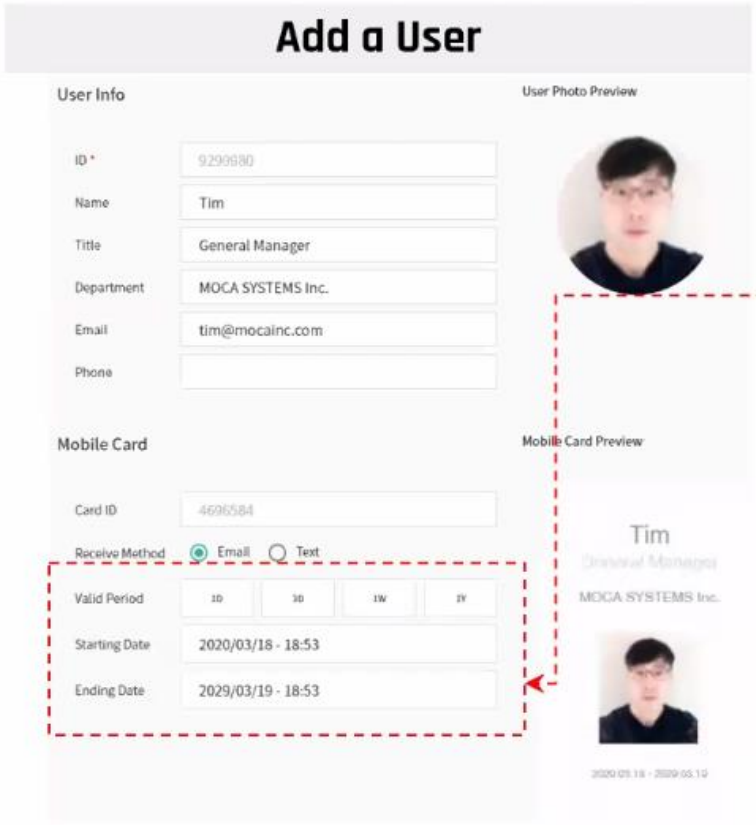
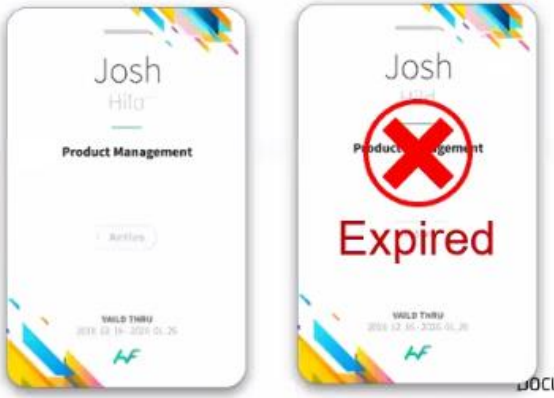
DYNAMIC & REGULAR LICENSE

DYNAMIC

Mobile Card Valid Period - Automatically disable mobile card by the ending date & time





by MOCA SYSTEM

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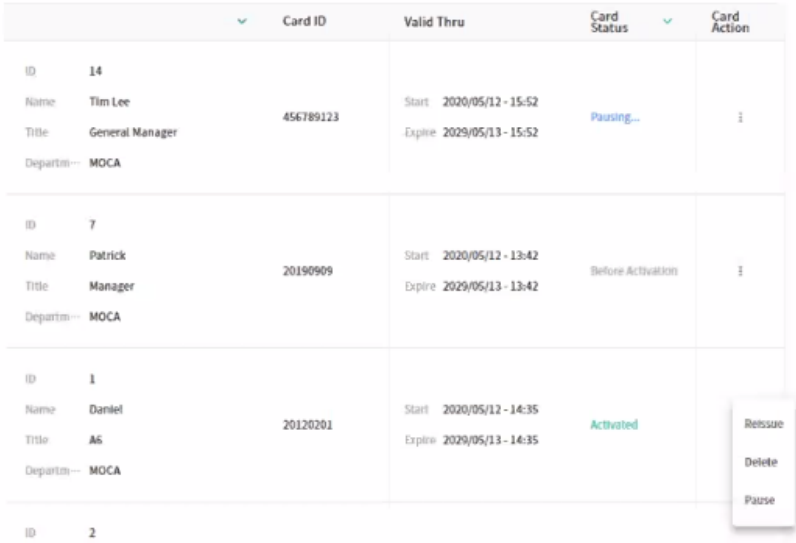
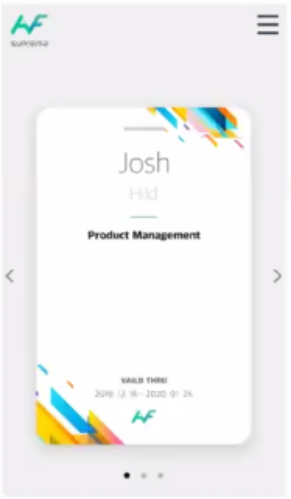
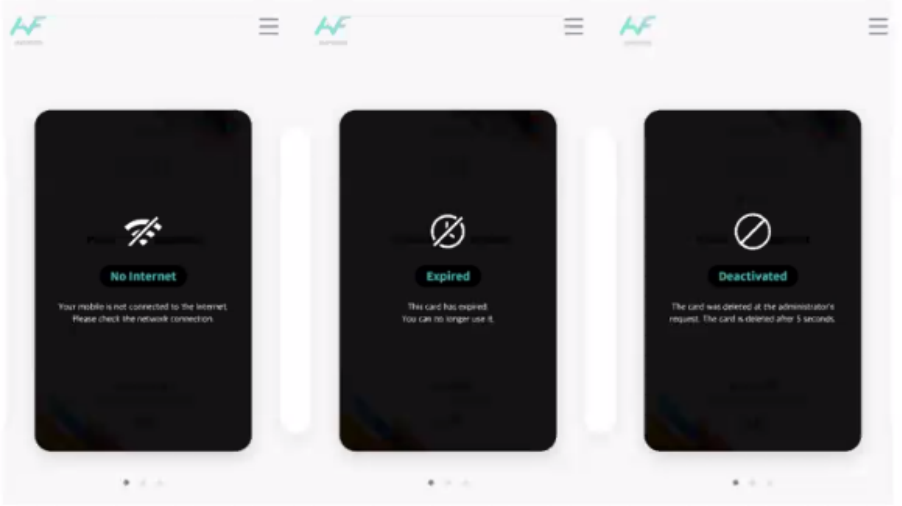
DYNAMIC & REGULAR LICENSE

DYNAMIC

Remote Mobile Card Status Control - Block & Restore the access right with mobile card alone







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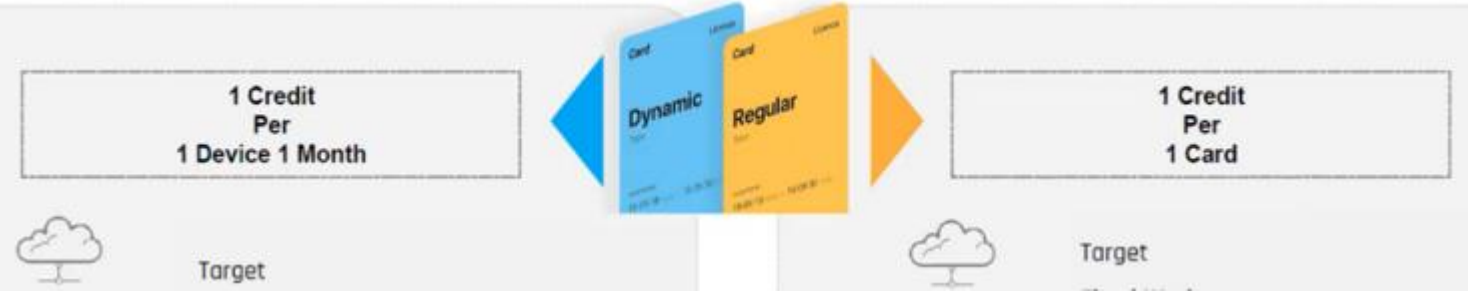
Pop Quiz

List The Communication Data For Dynamic Card ? (Dynamic & Regular Card)



- Issue New Card
- Reissue

A

- Valid Date
- Re-issue Card
- Issue New Card

B

- Issue new card
- Reissue
- Delete
- Pause
- Valid Date

C

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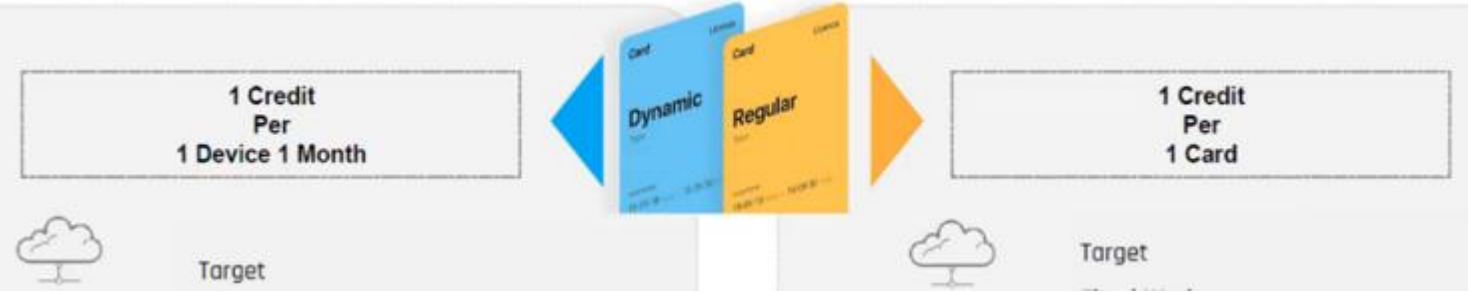
Pop Quiz

List The Communication Data For Dynamic Card ? (Dynamic & Regular Card)



- Issue New Card
- Reissue

A

- Valid Date
- Re-issue Card
- Issue New Card

B

- Issue new card
- Reissue
- Delete
- Pause
- Valid Date

C

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Pop Quiz

Which one of the Devices below supports BLE & Supreme Mobile Access?

BioStation 2

BioEntry W2

FaceStation 2

BioEntry Plus 2

XPass 2

XPass 2

A

BioStation 2

B

FaceStation 2

C

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Pop Quiz

Which one of the Devices below supports BLE & Supreme Mobile Access?

BioStation 2

BioEntry W2

FaceStation 2

BioEntry Plus 2

XPass 2

XPass 2

A

BioStation 2

B

FaceStation 2

C

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BREAK TIME

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3. WHY MOBILE ACCESS (Pre-Sales)

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COST

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COST

NO Additional Wiring

Just attach on the RF antenna

NO Additional HW Installation

NO Additional Settings or SW / FW Upgrade

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COST

Apply to everywhere RF card is used

USB
Reader

OA Printer

KIOSK

Airfob
Patch

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SECURITY

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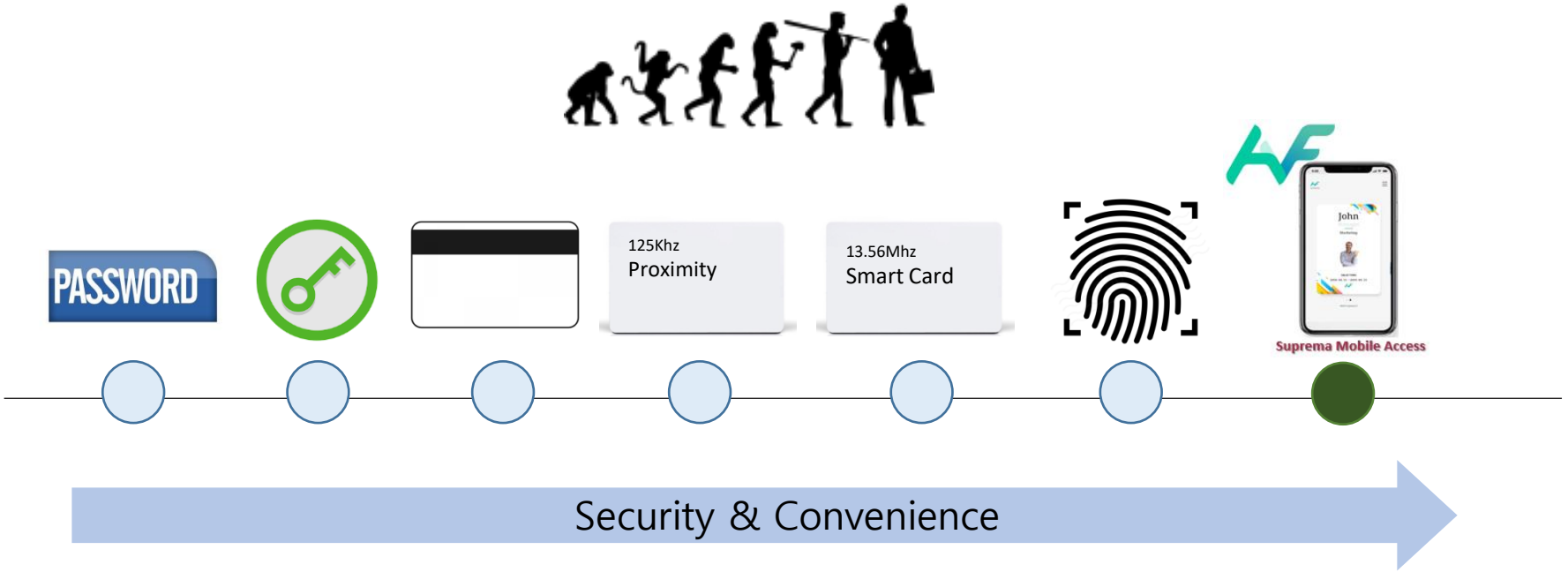
SECURITY

EVOLUTION OF CREDENTIAL



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Mobile Credential

High Security
With low cost

Safe

Price

13.56Mhz
iClass
SE

13.56Mhz
iClass
SEOS

13.56Mhz
Mifare
Plus

13.56Mhz
Mifare
Desfire

13.56Mhz
Mifare
DesfireEV1

Unsafe

125Khz
Prox

13.56Mhz
Mifare
Classic

125Khz
EM

Security Level

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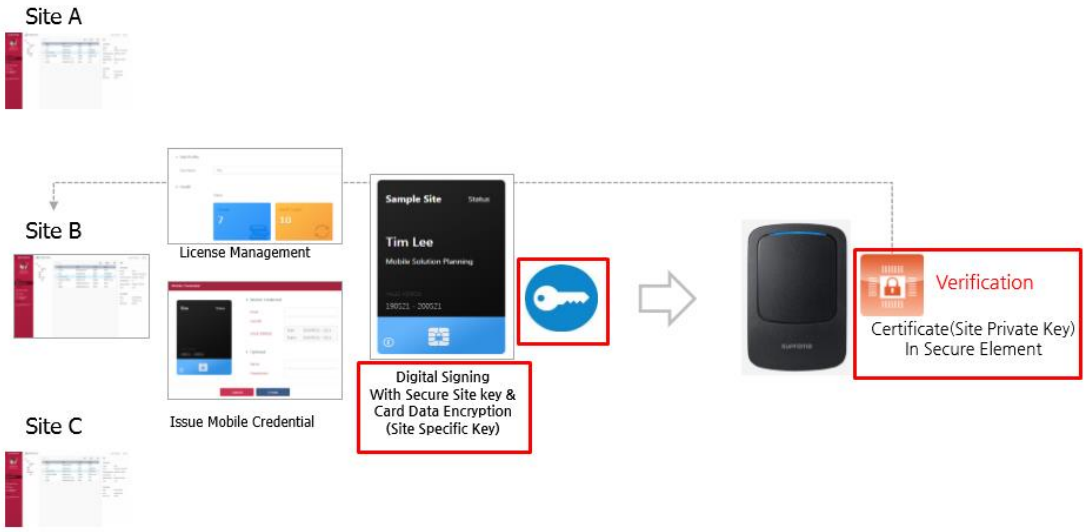
SECURITY

➢ Convenience & more security

1) Can use it by tagging your smart phone

2) Not need to meet employees to issue the mobile access card

3) AES 128 encryption & ISO 27001 certified system/operation



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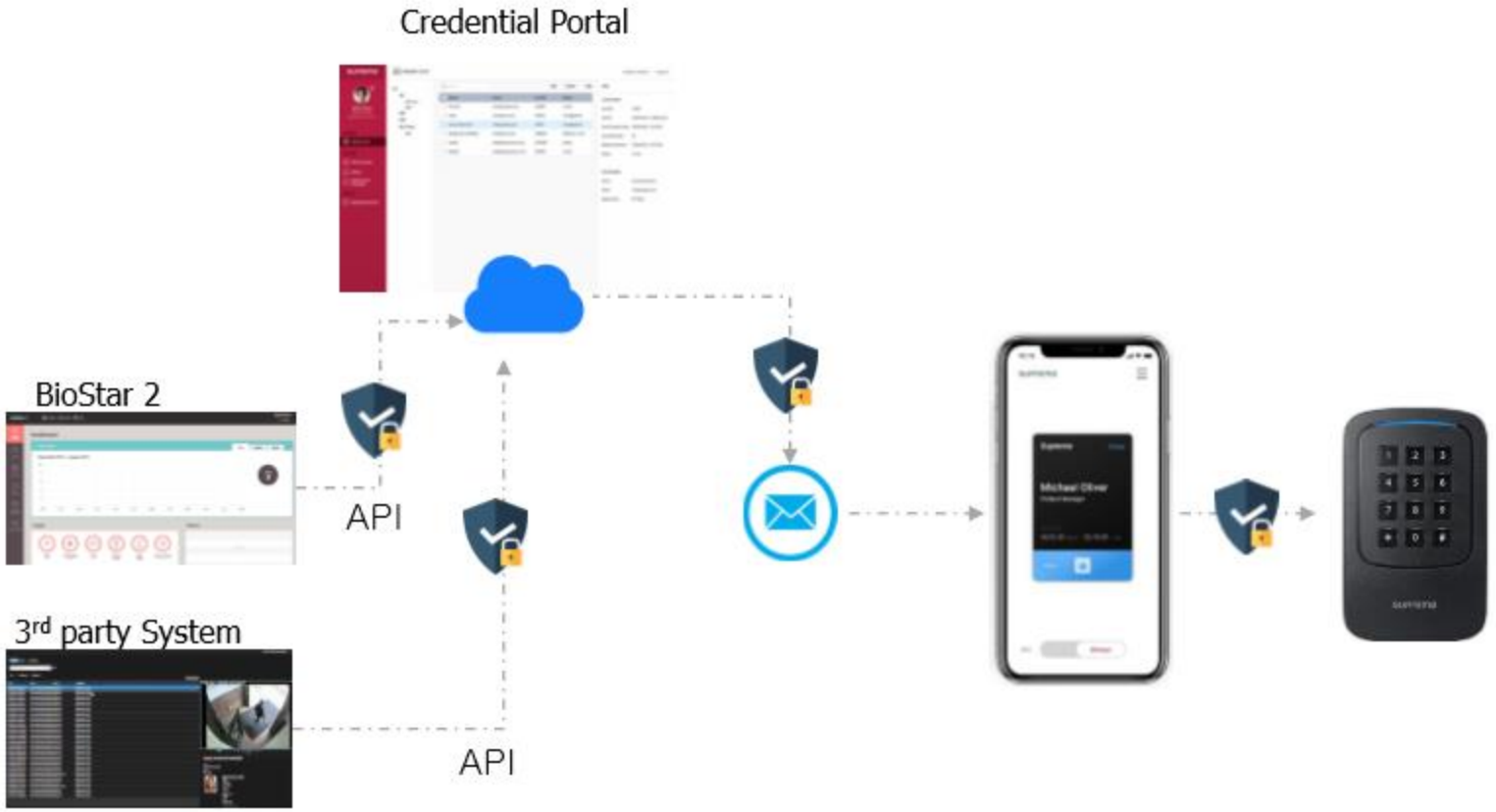
SECURITY

Highest security measures taken at every single point
(*ISO27001 certificate will be achieved in Q3 2019)



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SECURITY

Airfob provides end-to-end mobile access solution with high security

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SECURITY

Security Measures

MOCA's Airfob system applies the most strong security measures to all of its communication sections and data storage parts.

A. API communication between Airfob Portal and 3rd party Server
B. Mobile access card ID encryption in data set
C. Mobile access card data encryption in mobile devices
D. Preventing mobile card data replay attack
E. Preventing mobile card data forgery
Airfob system achieves ISO27001 certification as a proof its security measures across its entire platform and system.

A. API communication between Airfob Portal and 3rd party Server

REST API communication side is protected by HTTPS only communication measures with a token method. The token has a time limit for one hour as default. Also, Airfob Portal uses AWS's API gateway services for network throttling as a pre-emptive measure to avoid brutal network attacks.

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COVID19

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COVID19

The Market is now looking for an alternative solution.

Mobile Access is being EXPEDITED by Corona Virus because Of the below reasons:

"Access Control Without human contact"

"Need to wear Facial mask all the time"

"Do not want to go back To RF Cards own Risk" T&A Time Theft

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ACCESS CONTROL MANAGEMENT

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ACCESS CONTROL MANAGEMENT

Unmanned Access Control Management With Airfob Mobile Access

"Won't need to stay at the place for publishing RF Cards."

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ACCESS CONTROL MANAGEMENT

The most effective access management in an era of workforce mobility

RF Card cannot have multiple access permission to different physical sites with each of their own access control system.

Mobile can integrate several access permission on one mobile device with one access control system.

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Which AIRFOB License would you recommend for a Sport & Fitness GYM?

What AirFob Portal License would you select for a Sport Fitness Centre?

Answer is DYNAMIC LICENSE

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BREAK TIME

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4. POTENTIAL CUSTOMERS CASE

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PARTNER PORTAL

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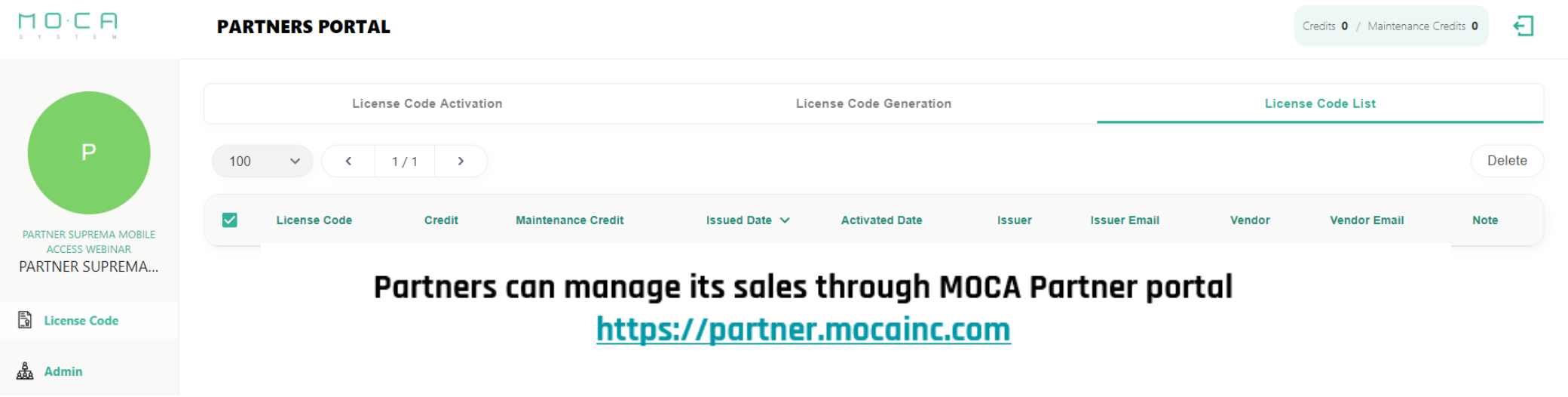
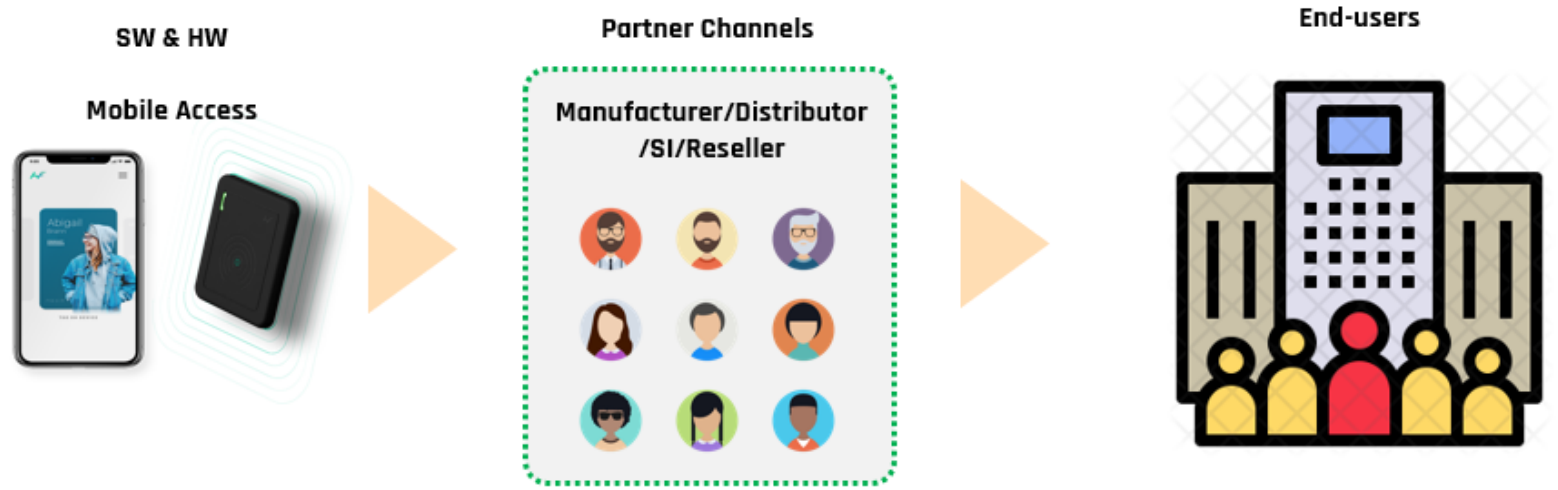
PARTNER PORTAL

https://partner.mocainc.com





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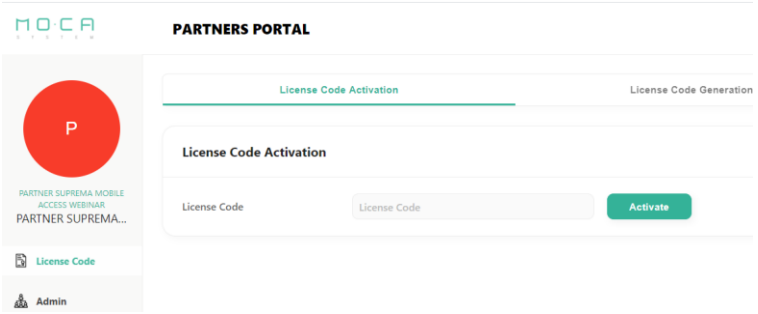
PARTNER PORTAL

Buy More at Low, Sell More at High through Partner Portal

Partner Platform

- Credit Stock Management
-Self License Code Generation
-License Code Resell/Purchase

Manufacturer/Disti/SI/Reseller



Manufacturer/Disti/SI/Reseller

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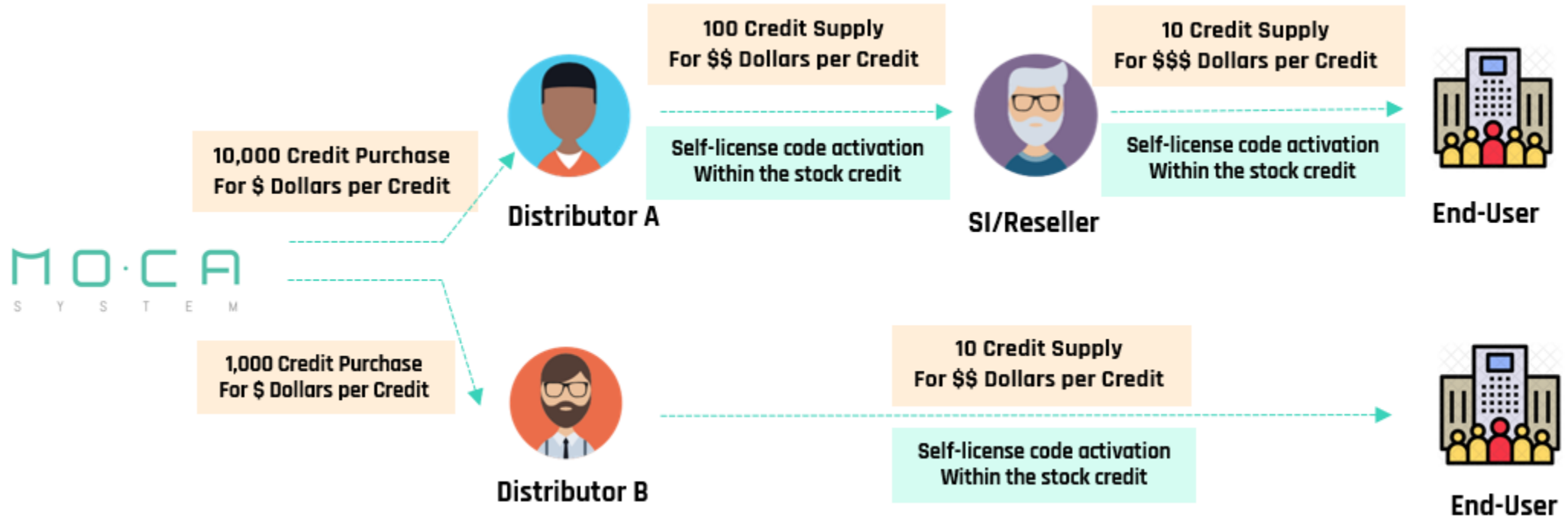
PARTNER PORTAL

Partners can manage their stocks and sell it their own way



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FITNESS CUSTOMERS CASES

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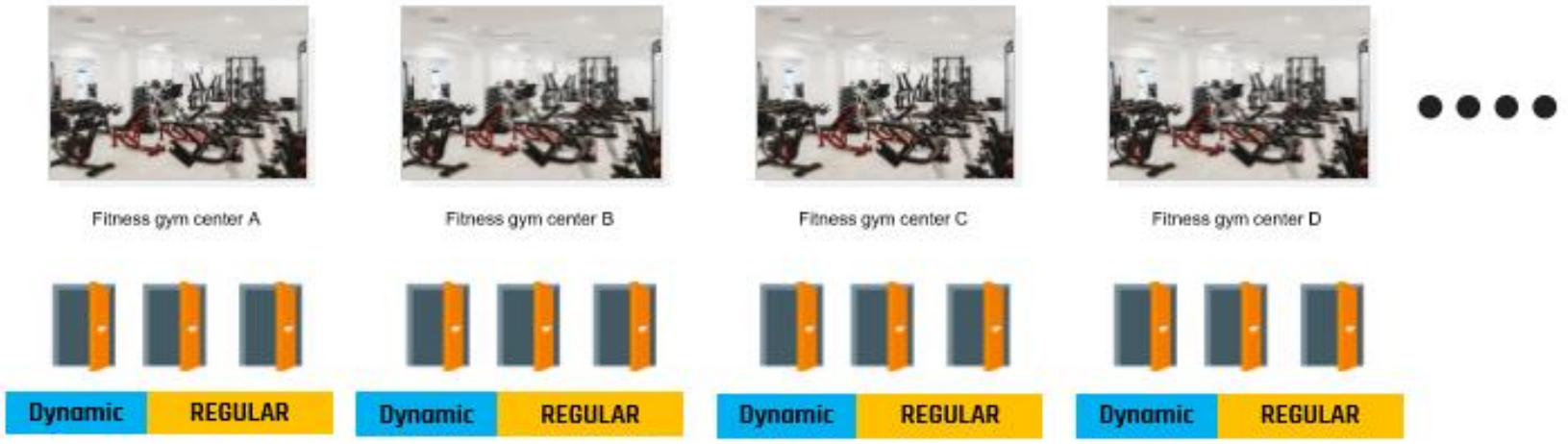
FITNESS CUSTOMERS CASES

Fitness Customer Cases

16 Gyms with 60,000 users, 200 employees
With 3 doors (One for all, Two for only employees)



"Mixed use for the best combination"

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INTEGRATION

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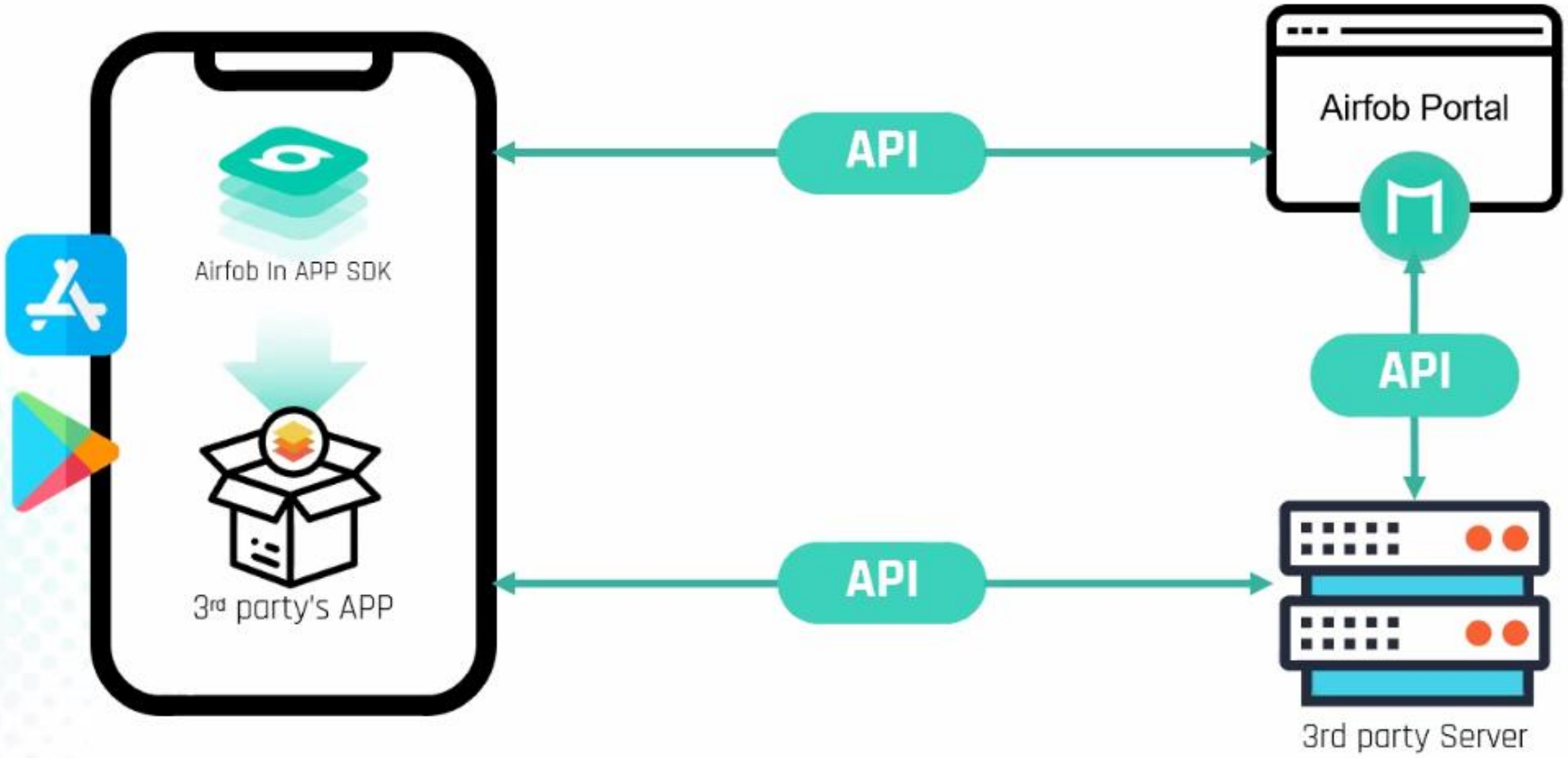
INTEGRATION

Open API & In-APP SDK

- 3rd party service integration



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INTEGRATION

AIRFOB PORTAL

OPEN

{ REST:API }

+

Mobile Card Core
In-App Native SDK

.Object_C Lib .Jar

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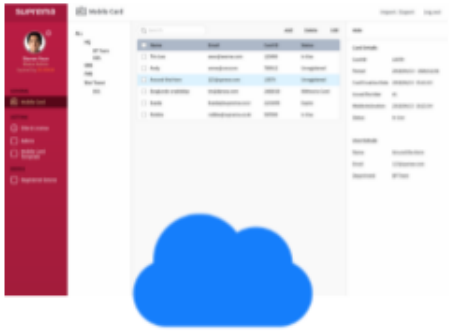
INTEGRATION

3rd Party Server

1. Mobile Card Generation API Request
(Email, Mobile Card ID)

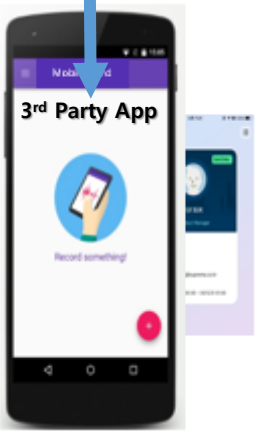


AirFob Portal

2. API Response
(Transfer Mobile Card Data)

3. Mobile Card Initiation

4. Mobile Card Input Into In-App SDK
(Transfer Mobile Card Data)



5. Secure Comm via NFC/BLE

6. Output to ACU
(Wiegand or RS485 OSDP)

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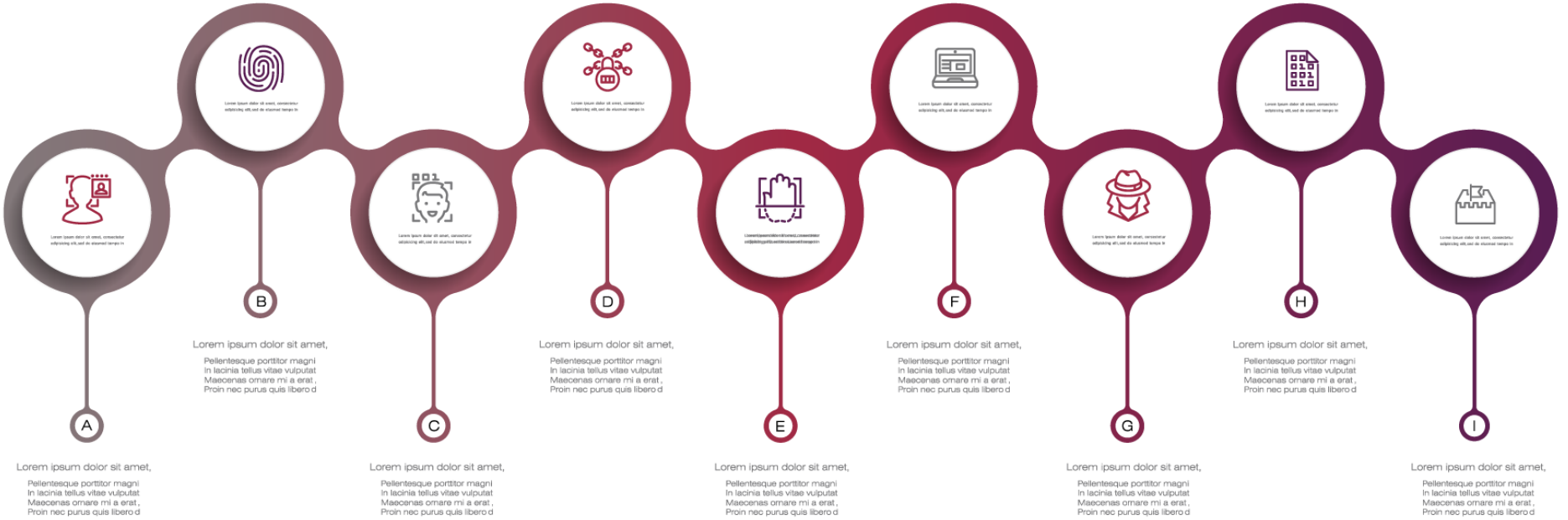
Platform

Biometrics Platform with Easy Use, Installation and Integration

BioStar2, Web-based open integrated security platform.



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BioStar 2

FAQs

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GENERAL INFORMATION

Card Type & License (FAQ)

Q1) When ordering how will we define dynamic from fixed?

When you order, you can just order a credit. How to define is decided when you apply in Regular type site or dynamic type in your Airfob site at first.

Q2) In line with dynamic. If i have 10 credits, then it is equivalent up to 10 device valid for 1 month?

Yes, you are right. Or 1 devices x 10 months

Q3) In a dynamic type means it is not recommended to use for a regular employee, right? This is design more on membership and events only?

Yes, you are right. It's for membership management.

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GENERAL INFORMATION

Q1) Suprema Mobile Access can be applied with Centralized Solution or only distributed solution?

You can use it to Centralized System or, you can use it to Distributed System also.

Q2) If I install two readers to In and Out for a door, there will be an issue to open the door?

BLE strength is measured very differently. So, when you tag your reader from outside, it does not work to the inside reader.

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FAQs

Q4 What happens to the existing customer after Airfob Portal changed?

- No affect on the existing license and functionalities. Only UI changes.

Q5 What happens to the existing BioStar 2 integration & API Calls?

- Existing customers can use the same settings & API URLs. No changes are needed.

Q6 Can a regular card use the custom card?

- Not currently. We will add this feature later.

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20 Years of Innovation

FAQs

Q7 **Would multi card work for regular cards?**

- Yes, multi card is supported regardless of regular or dynamic.

Q8 **What happens to the URL address after Airfob Portal changed?**

- The previous https://mc.suprema.io will just redirect to the new portal address, https://mc.mocainc.com.

Q9 **Can we import CSV file to get user information?**

- We are working on that feature. We will keep you updated once it is ready.

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Q & A

ANY QUESTIONS?

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PLEASE !
HOLD ON!
CAN YOU TAKE PART IN OUR SURVEY/POLL ON THE SCREEN.

Thank you!

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