

# WEBINAR

## All about CoreStation

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Speaker



**Dwayne Neufville**

UK & Ireland Technical Team Lead Manager at Suprema



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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.



**Access Control & Time Attendance software with powerful functionalities and features**





## Major New Updated Items

# New Features of BioStar 2 2.7 / 2.7.14 v

Released in April 2020

**Suprema Mobile  
Credential**

**Enhanced  
Security  
Settings**

**Enhancement  
In Mobile  
Credential  
Usage**

**New Device  
Support:  
Xpass D2 (Rev 2)**

**Airfob Patch**

**CoreStation  
Supports  
the FS2 as  
Slave Device**

**Visitor  
Manageme  
nt (Basic)**

**Improved  
Muster  
Zone**

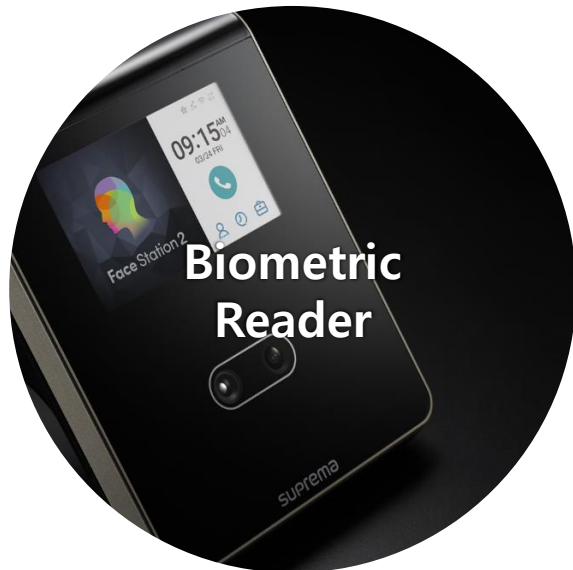


# Product

## 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.



**Biometric  
Reader**



**RFID  
Reader**



**Intelligent  
Controller**

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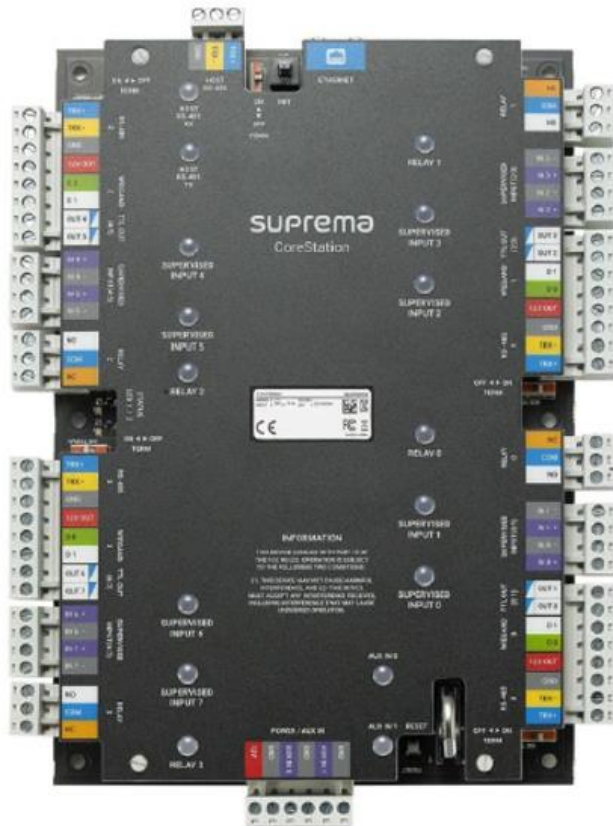
# I . What is the CoreStation?

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# What is CoreStation?



## Suprema's Intelligent Biometric Controller

- 4 Door Access Controller
- Matching all type of credentials (Card, Biometrics, Mobile)
- Compatible with all standard readers
- Stores up to 500,000 users
- Suitable for SMB to Enterprise System(Max. 132 Door)
- Easy setup and configuration via webserver and App.

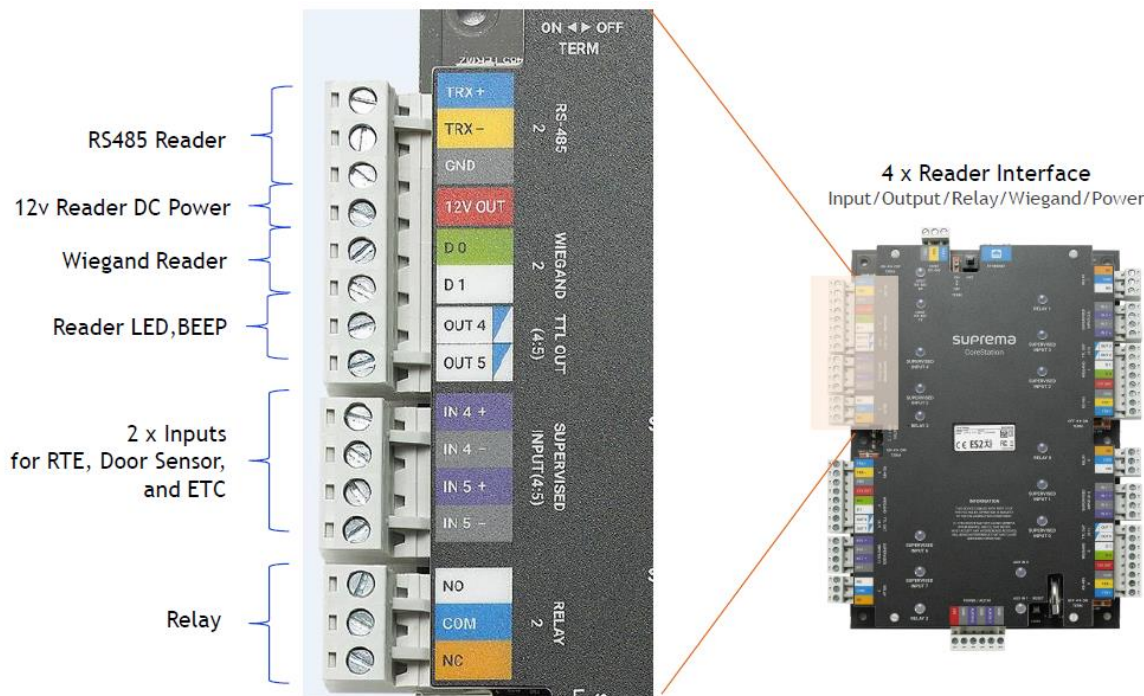
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# What is CoreStation?

CoreStation supports four on-board reader ports for both Wiegand and RS485 interface along with relays, inputs, and reader power-out.



CoreStation Specs	
CPU	1.4 GHz Octa Core
POWER /AUX IN	DC 12V, 3A
Memory	8 GB Flash + 1 GB RAM
Max. Users	500,000 (1:1) and 100,000 (1:N)
Max. Templates	1,000,000 (1:1) and 200,000 (1:N)*
Max. Text Logs	5,000,000 (text)
Serial Comm. Protocol	OSDP V2
Ethernet	10/100 Mbps and Auto MDI/MDI-X
RS-485	5ch
Wiegand	4ch Input
Relay	4 Relays
TTL Input	8ch (Supervised input selectable)
TTL Output	8ch
AUX Input	2ch (AC power fail and tamper)
Certification	CE, FCC, KC, RoHS, WEEE, REACH, <b>UL 294</b> (Coming)

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# CoreStation System Line-Up

## ✓ CoreStation related Reader



	BER2	XPD2(Mullion)	XPD2(Gang Box)	XPD2(Gang Box)
<b>RF Option</b>	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa
<b>Suprema Mobile Access</b>	NFC	NFC/BLE	NFC/BLE	NFC/BLE
<b>Template</b>	SUPREMA	-	-	-
<b>Sensor Type</b>	Optical Sensor (OP6)	-	-	-
<b>IP rating</b>	-	IP67	IP67	IP67
<b>IK rating</b>	-	IK08	IK08	IK08
<b>RS-485</b>	1ch (OSDP V2)	1ch (OSDP V2)	1ch (OSDP V2)	1ch (OSDP V2)
<b>Wiegand</b>	-	1ch output	1ch output	1ch output
<b>Dimension (WxHxDmm)</b>	50 x 164 x 37.5	48 x 144.7 x 27	80 x 130 x 25	80 x 130 x 25
<b>Certificates</b>	CE, FCC, KC, RoHS, REACH, WEEE	CE, FCC, KC, RoHS, REACH, WEEE, SIG	CE, FCC, KC, RoHS, REACH, WEEE, SIG	CE, FCC, KC, RoHS, REACH, WEEE, SIG

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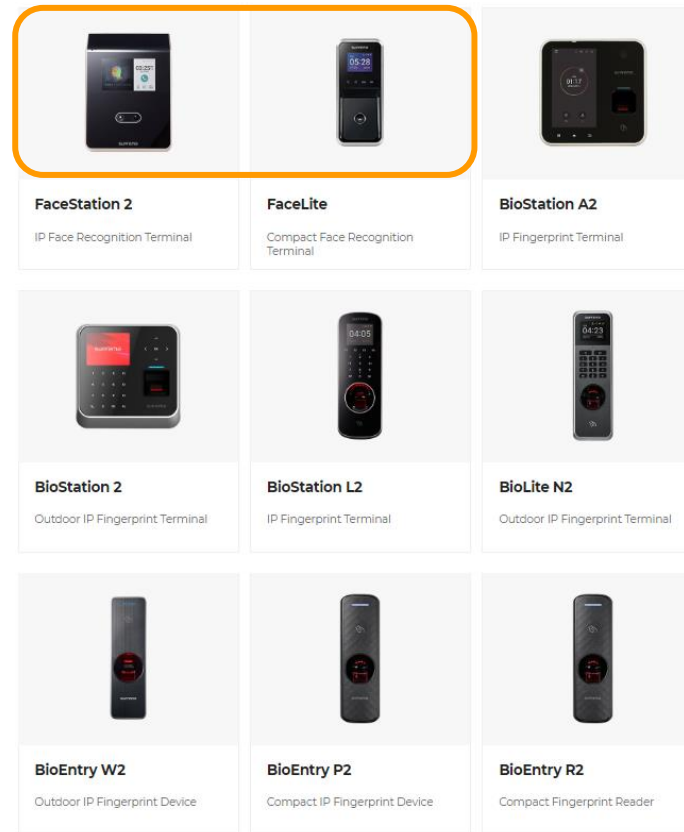
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# CoreStation System Line-Up

## ✓ CoreStation + Suprema Intelligent Biometric Reader

Plan to support on June



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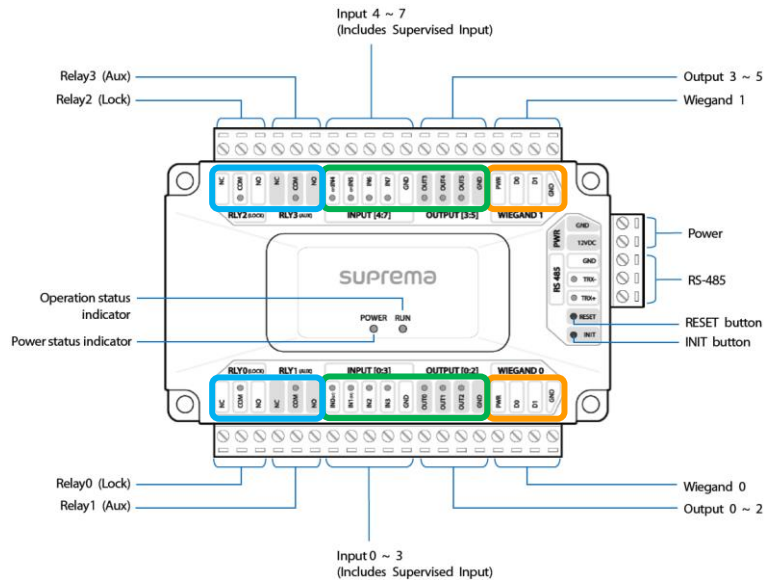
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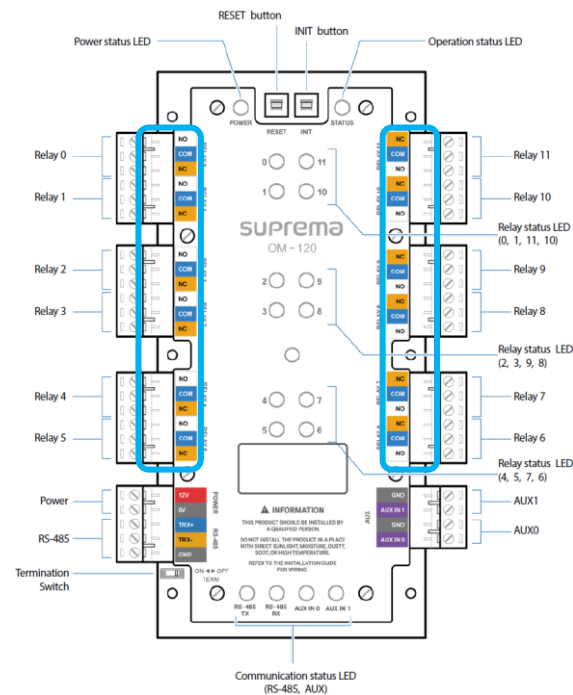
# CoreStation System Line-Up

## ✓ CoreStation Peripherals

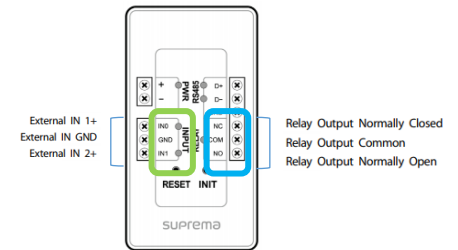
DM-20(Door Module)



OM-120(Output Module)



Secure I/O2



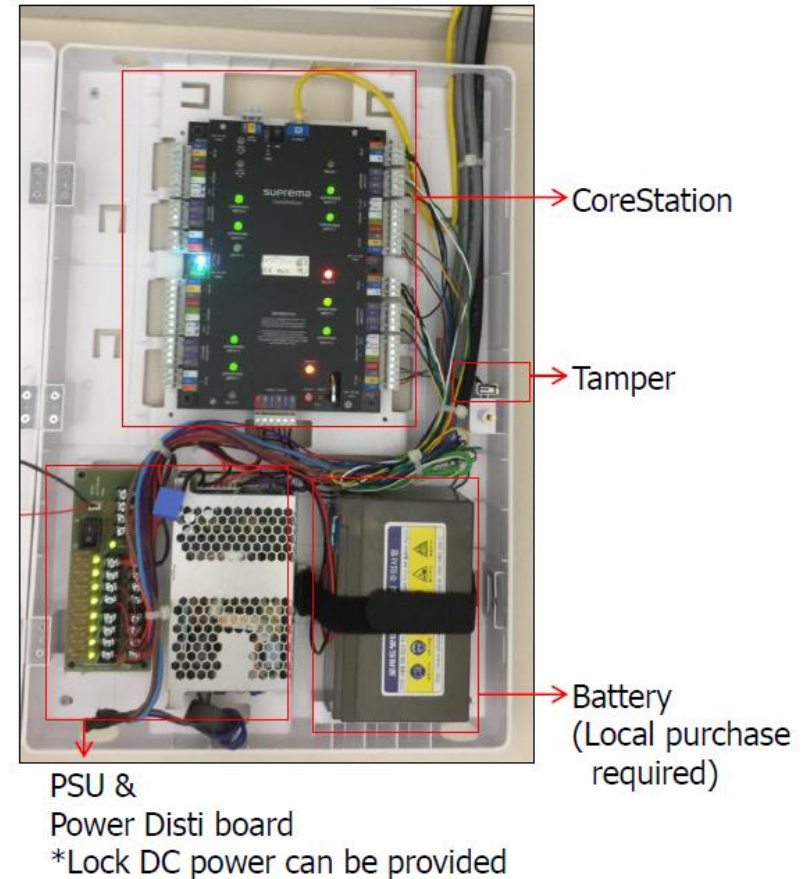
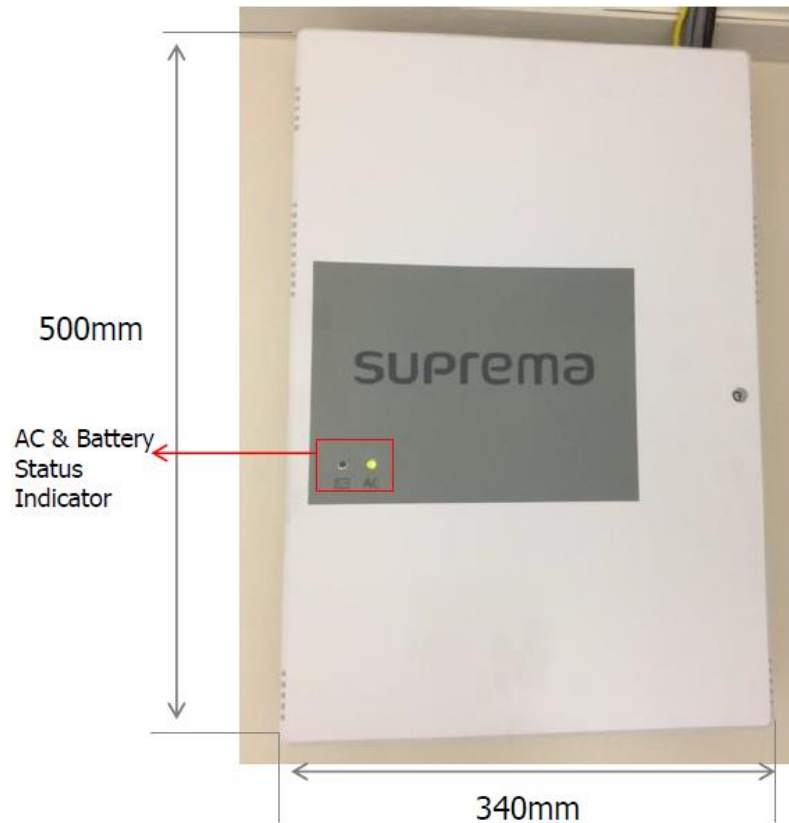
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# CoreStation System Line-Up

## ✓ CoreStation Enclosure(ENCR-10)



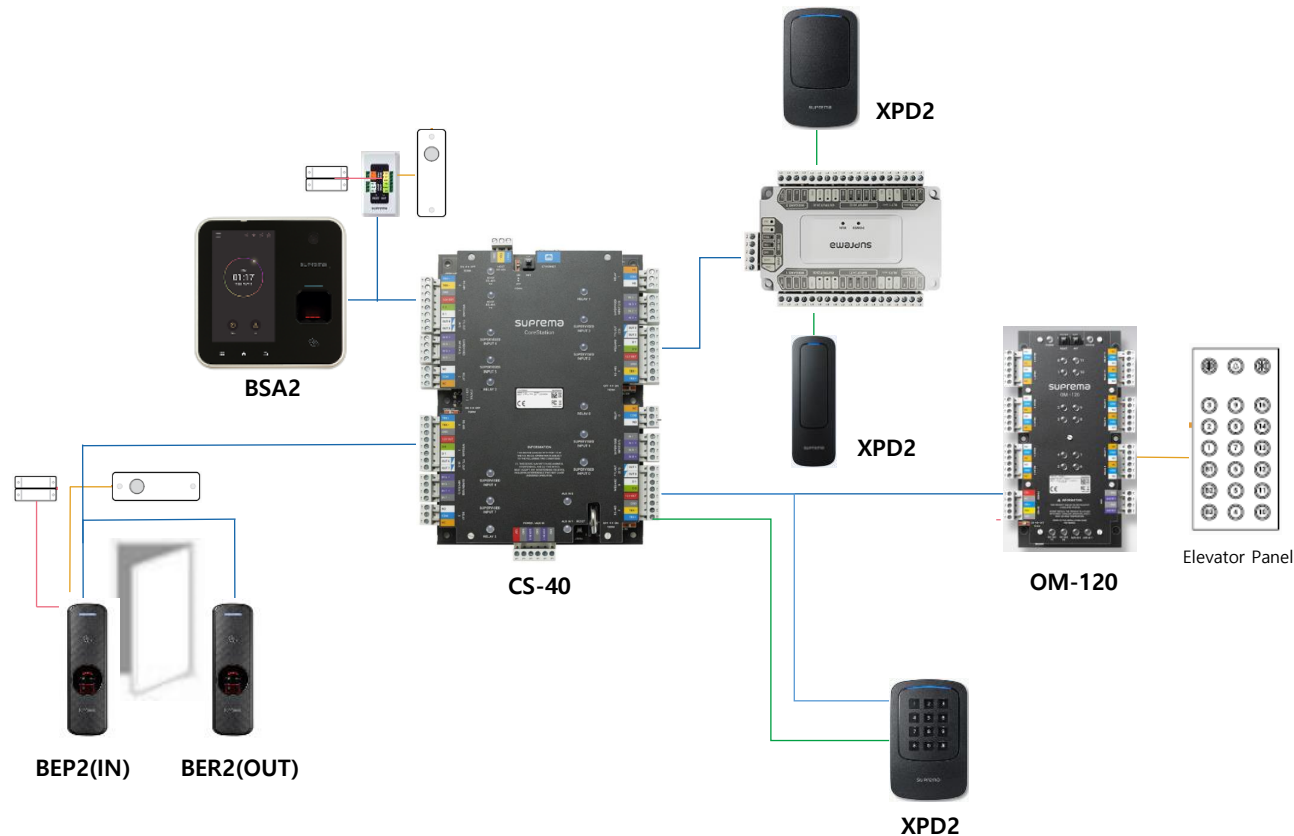
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# CoreStation System – How it works?

- Wiegand
- Relay
- TCP/IP
- Input
- RS485



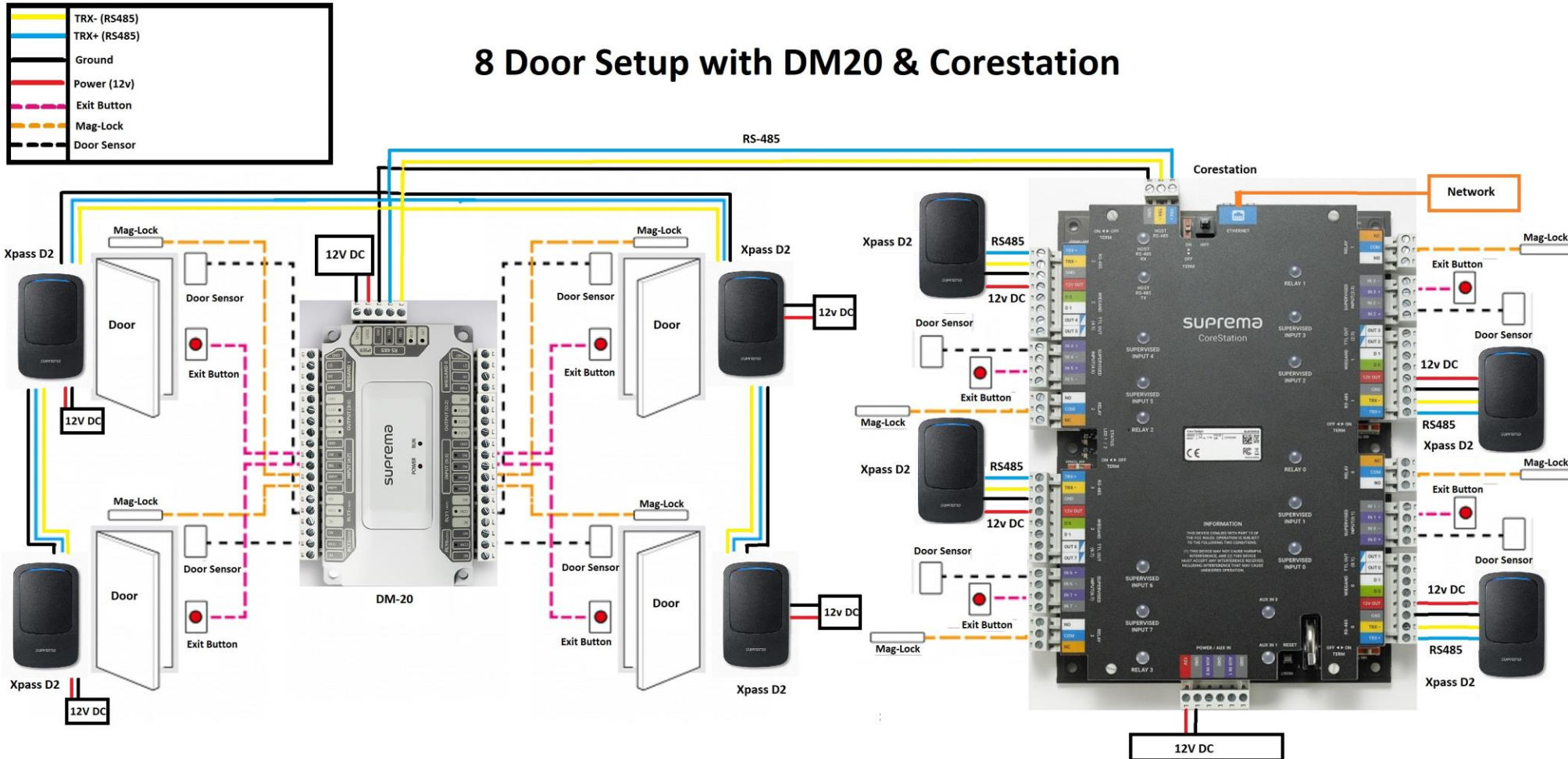
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# CoreStation System – How it works?

## 8 Door Setup with DM20 & Corestation



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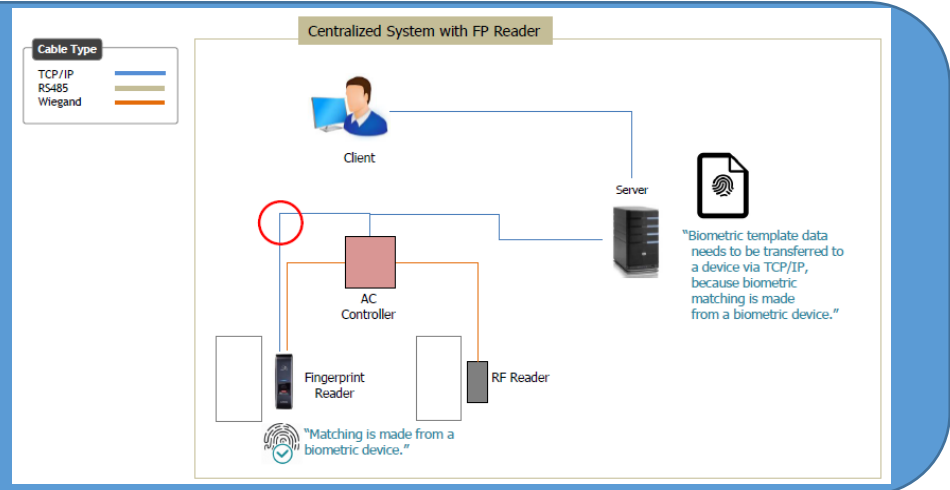
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# CoreStation System – Wiegand vs RS485

## Legacy way to use Bio-Readers:

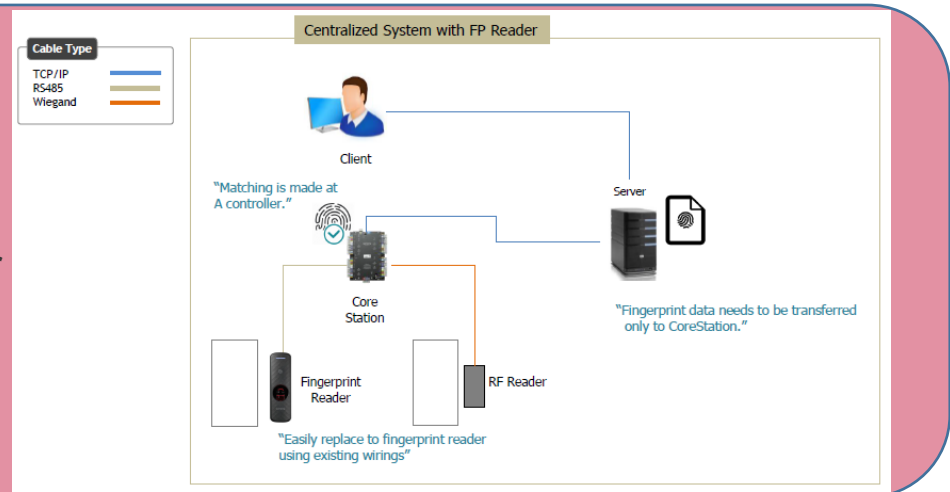
- TCP/IP at the front door
- Data-Subject info in device
- Wiegand



VS

## New Privacy by Design:

- TCP/IP only in the secure area
- Data-Subject info in the Controller
- RS485 OSDP V2 SC



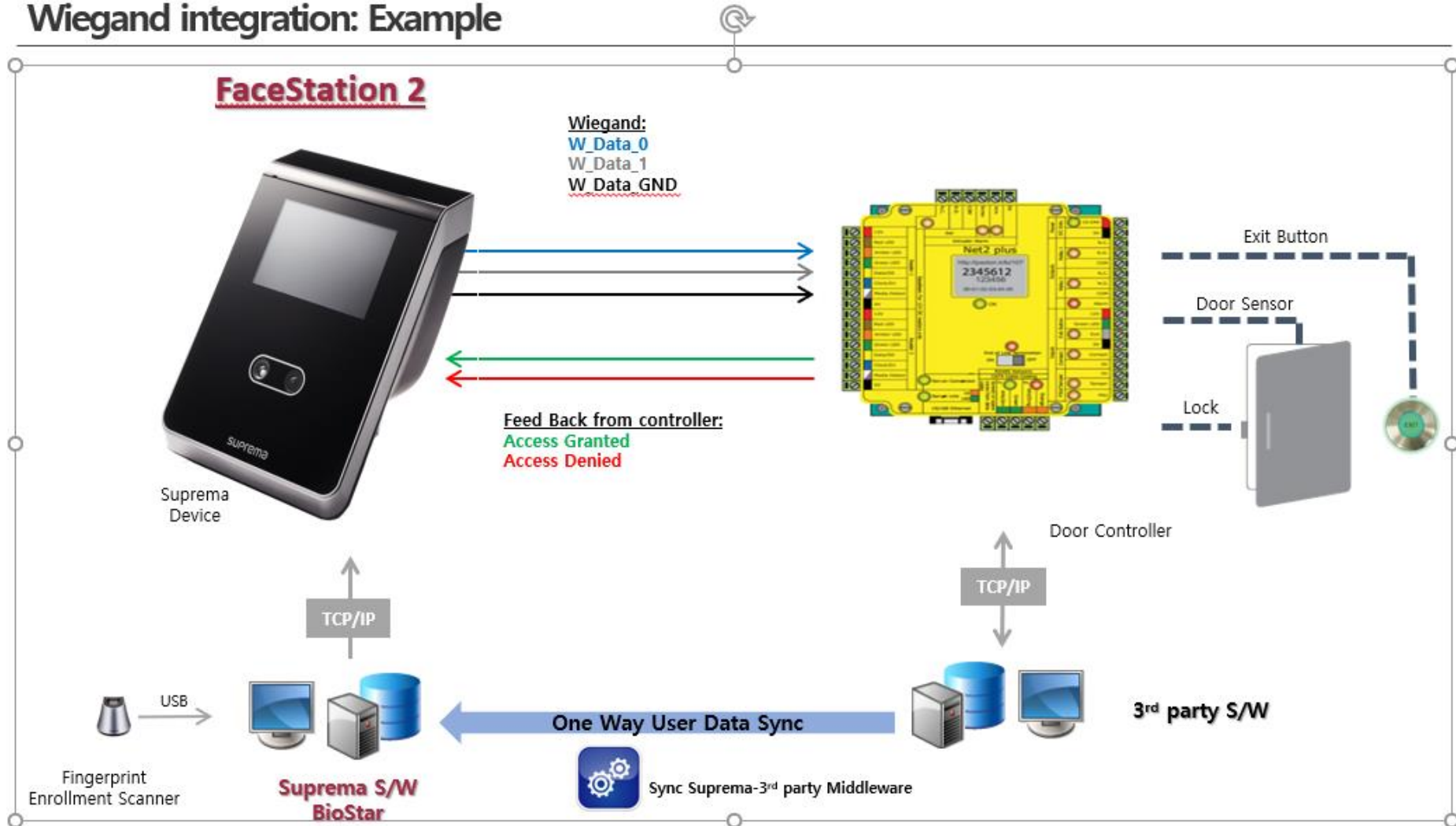
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## Legacy way to use Bio-Readers:

### Wiegand integration: Example



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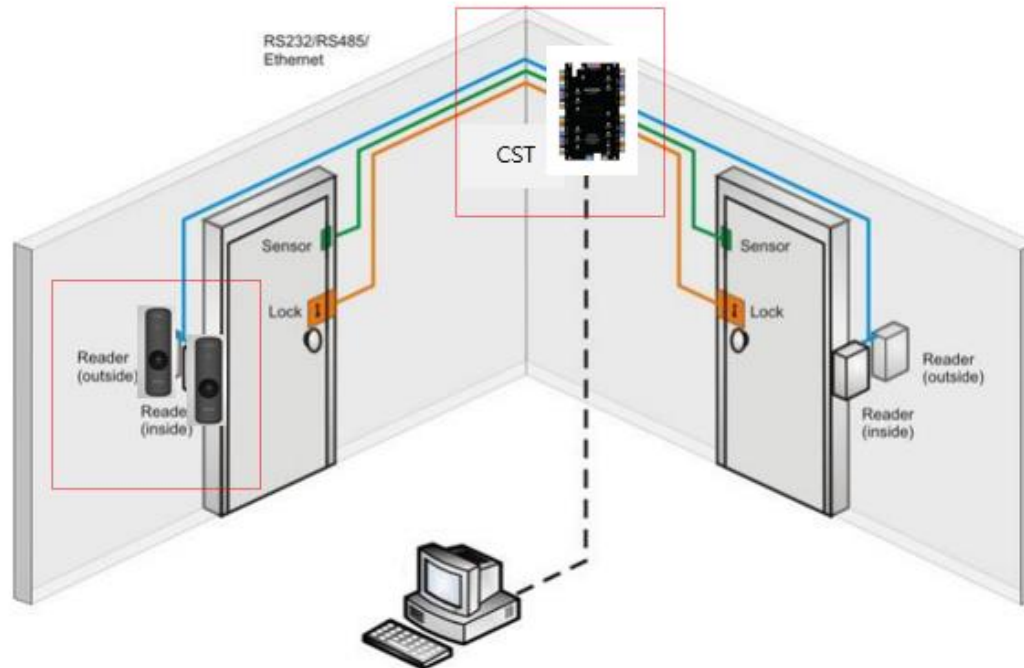
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## CoreStation System – Transition Phrase

### Example

## Change without additional wiring



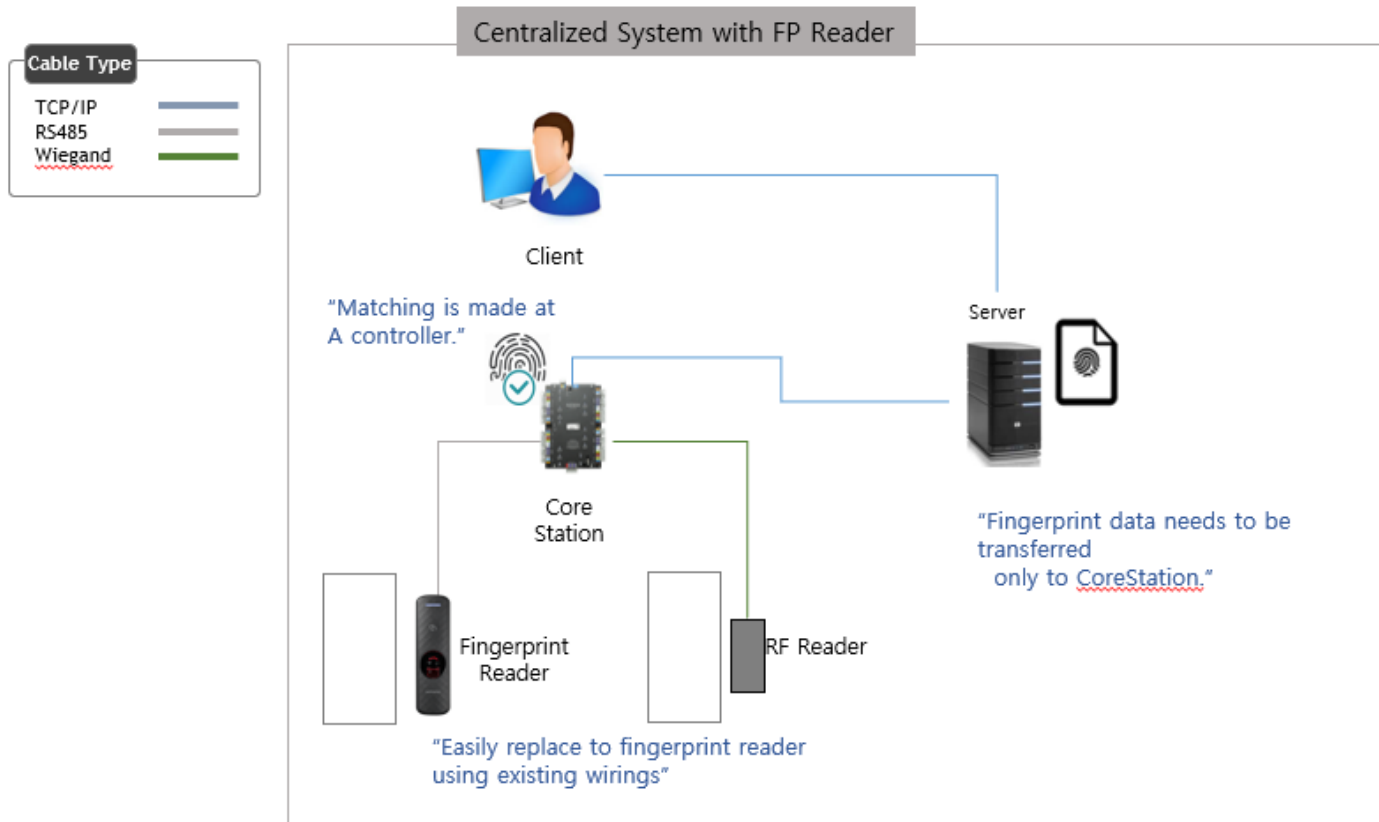
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# CoreStation: Centralize Solution

## CoreStation (Biometric Matcher)



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# How to configure door by CoreStation



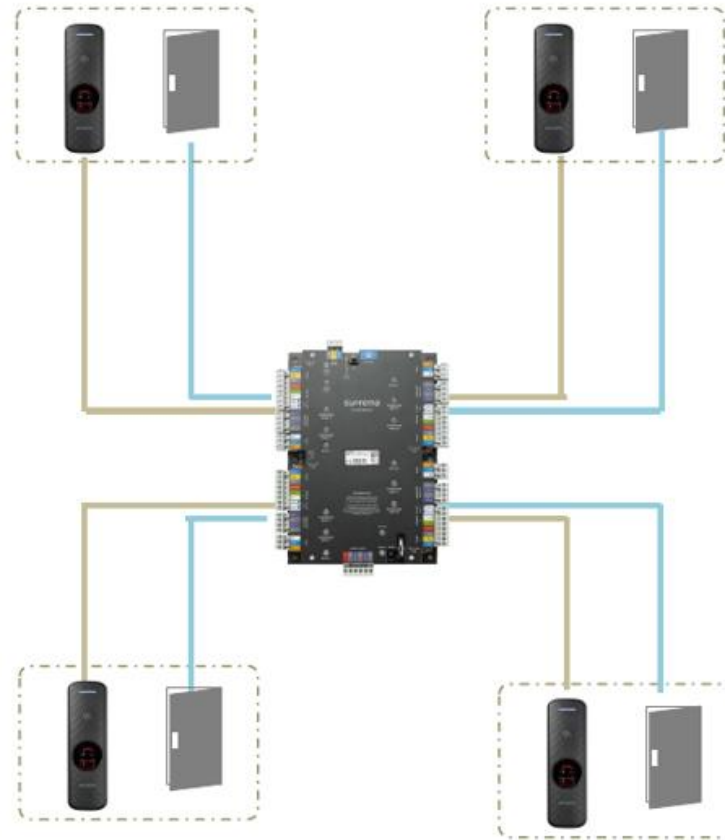
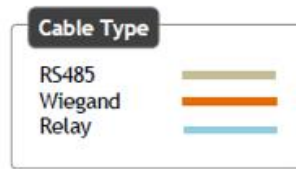
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# Door Configuration by RS485



# CoreStation System – Configuration by RS485

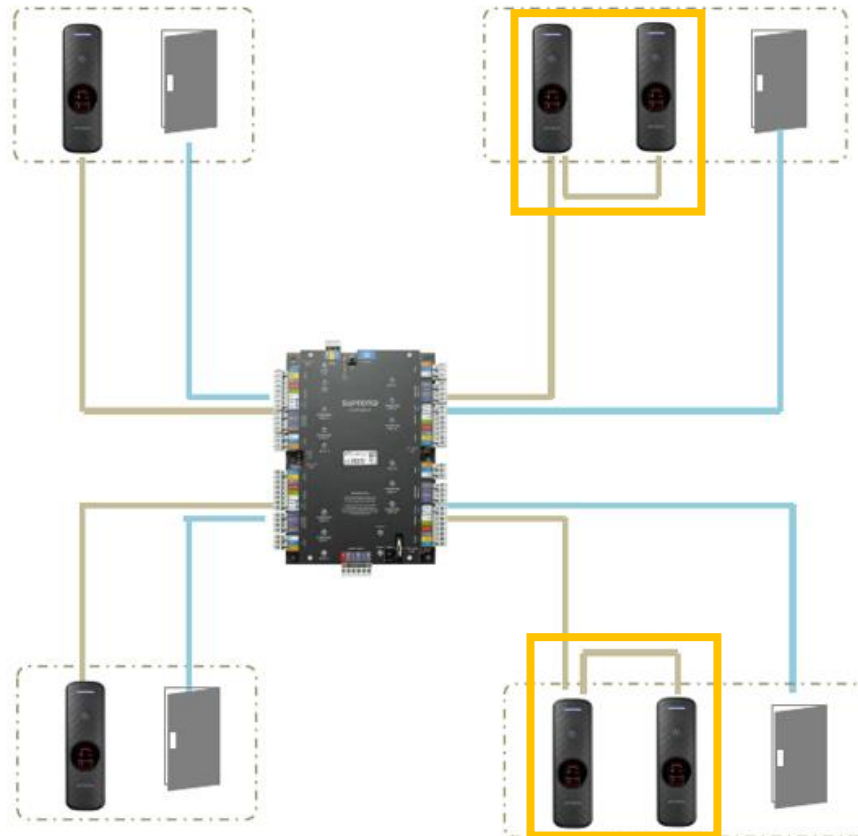
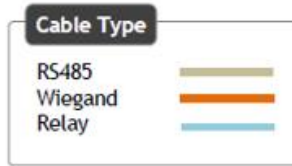
## ✓ 4 Door Configuration





# CoreStation System – Configuration by RS485

## ✓ 4 Door Configuration

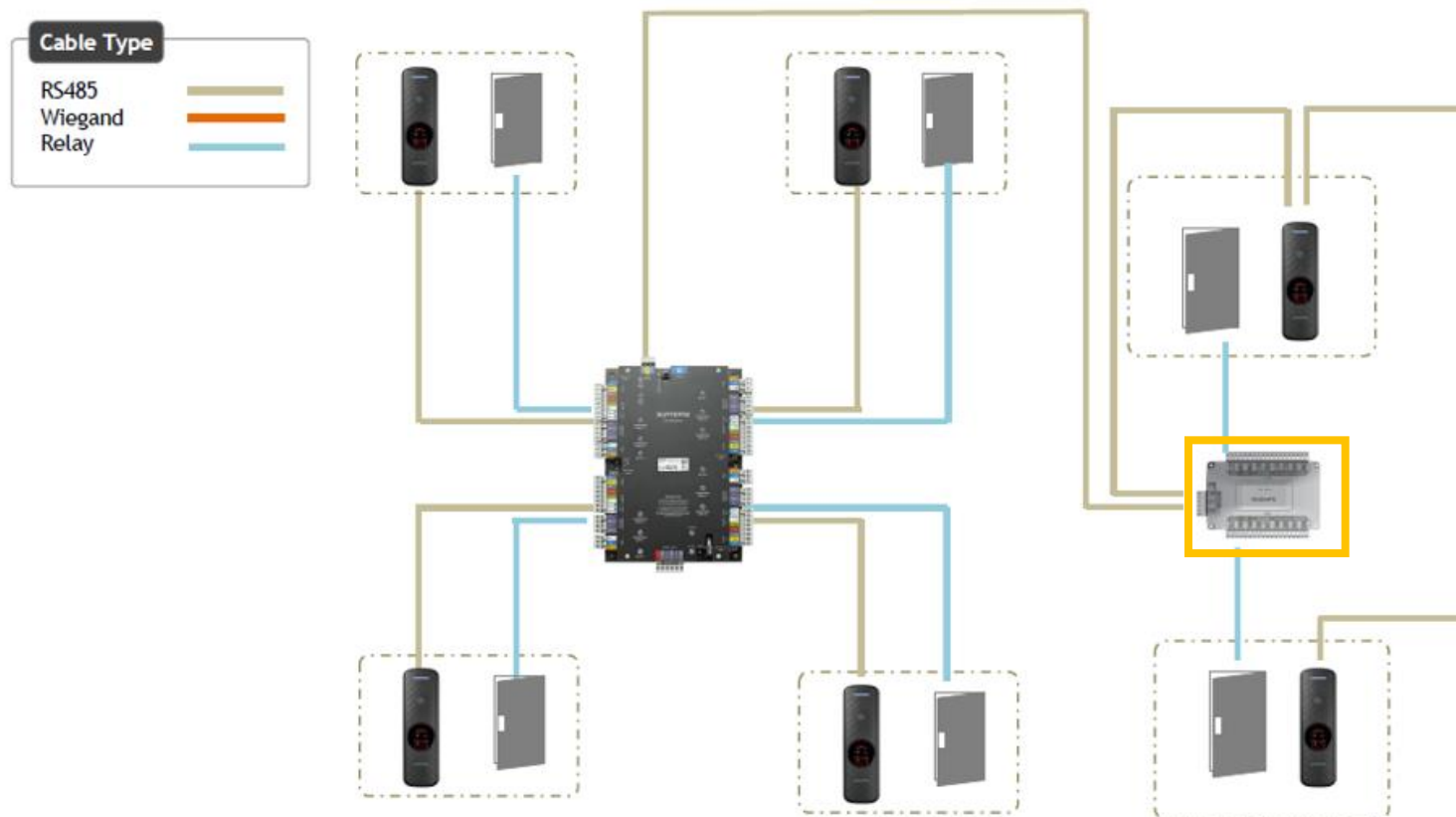


\*When using RS485 daisy chain, reader power-out from CoreStation may not be strong enough. So it's recommended to use an additional power connection.



# CoreStation System – Configuration by RS485

## ✓ 6 Door Configuration

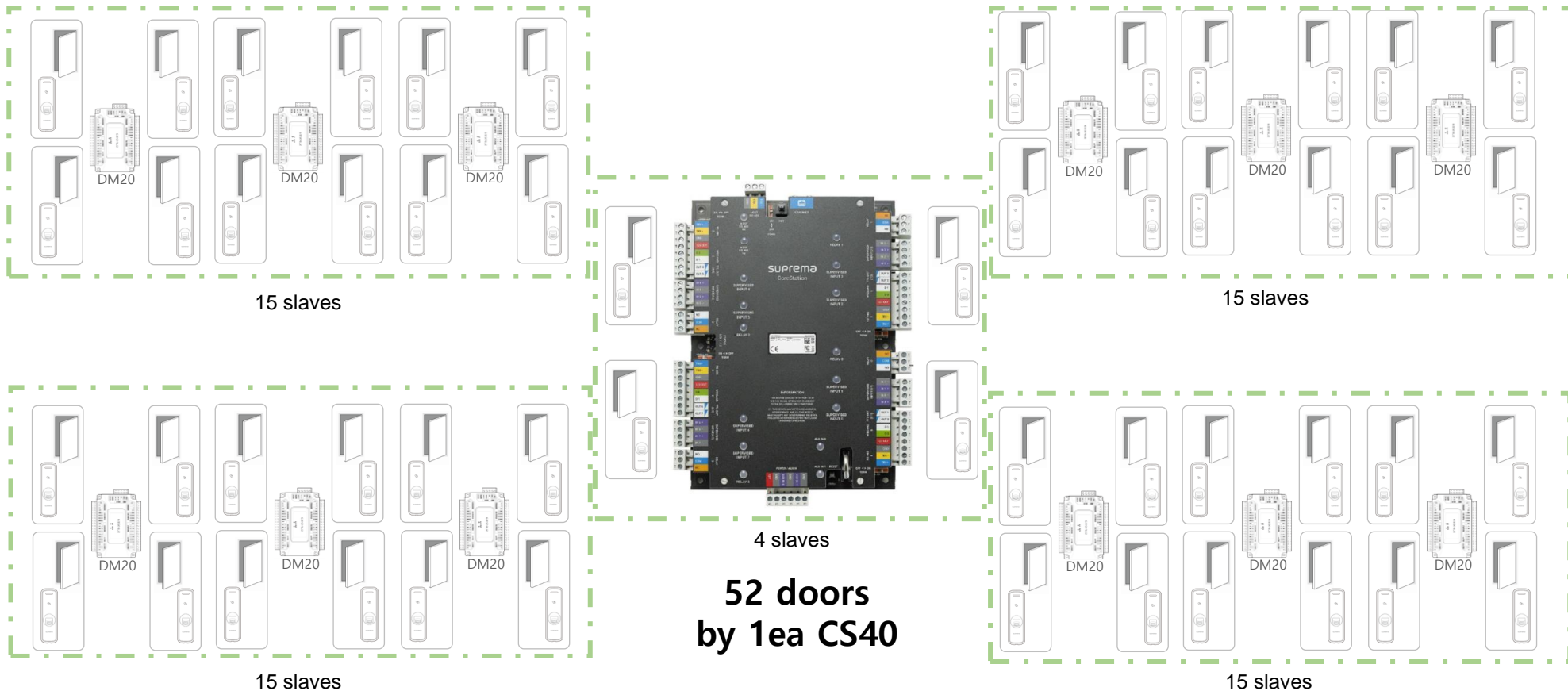




# CoreStation System – Configuration by RS485

## ✓ 52 Door Configuration

- Up to 64 slave devices can connect CS40
- Make sure up to 32 slave devices can connect per RS485 port



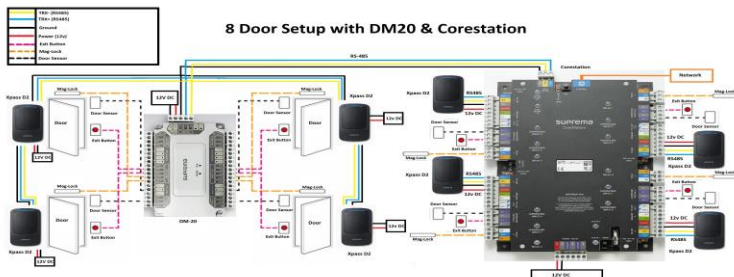


## How to utilize the capacity of the 64 Devices on RS-485 connection to CoreStation

CoreStation connection RS-485

How many Doors will the  
CoreStation accommodate with 2  
readers (RS-485) per door?

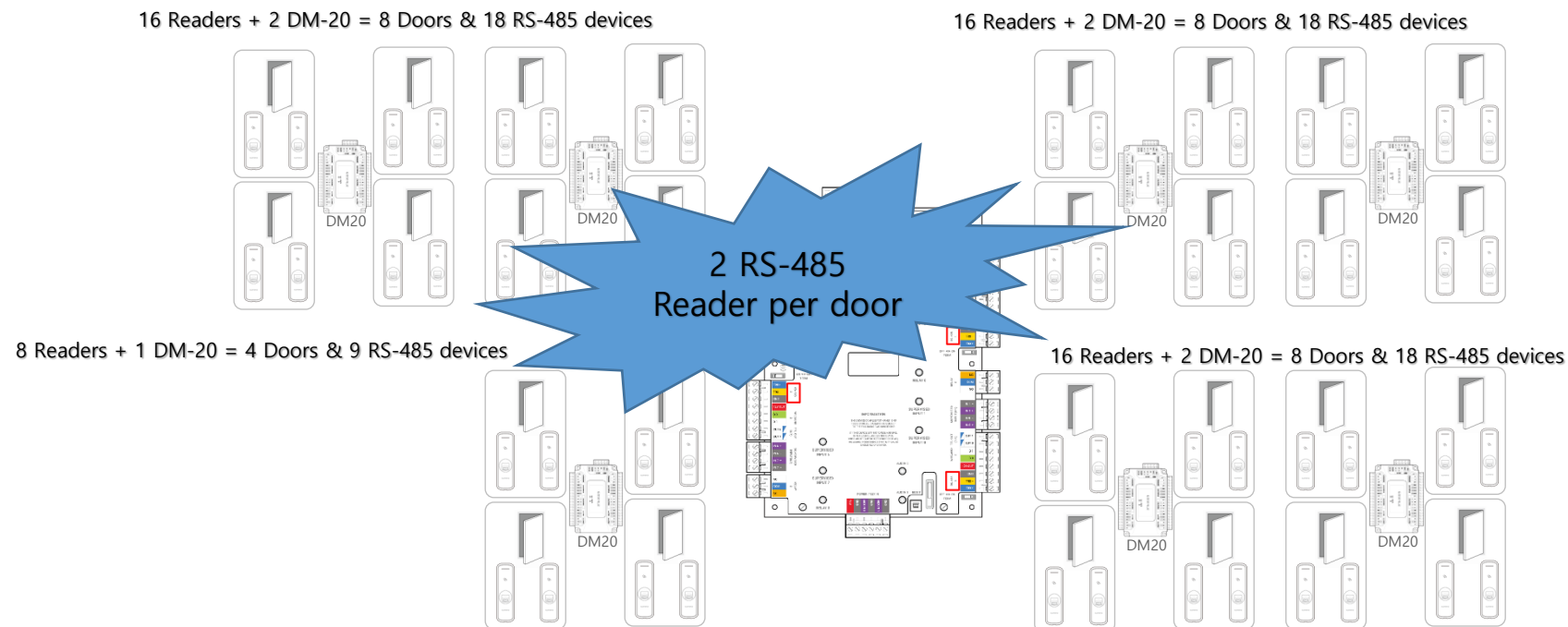
**Answer is 28**





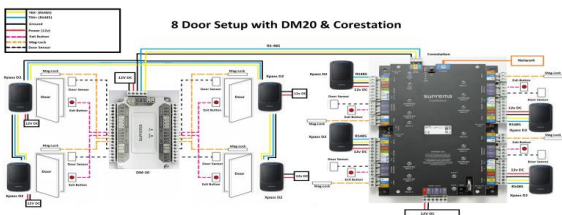
# How to utilize the capacity of the 64 Devices on RS-485 connection to CoreStation

## CoreStation connection RS-485



8 + 8 + 8 + 4 = **28** Doors with 2 reader per door

**63** RS-485 devices



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# BREAK TIME



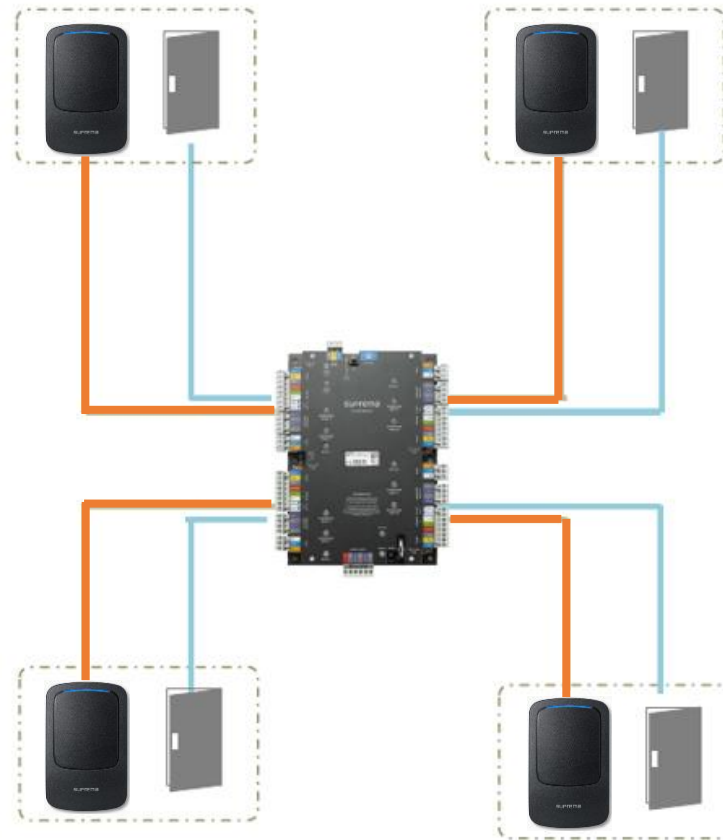
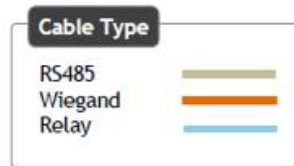


# **Door Configuration by Wiegand**



# CoreStation System – Configuration by Wiegand

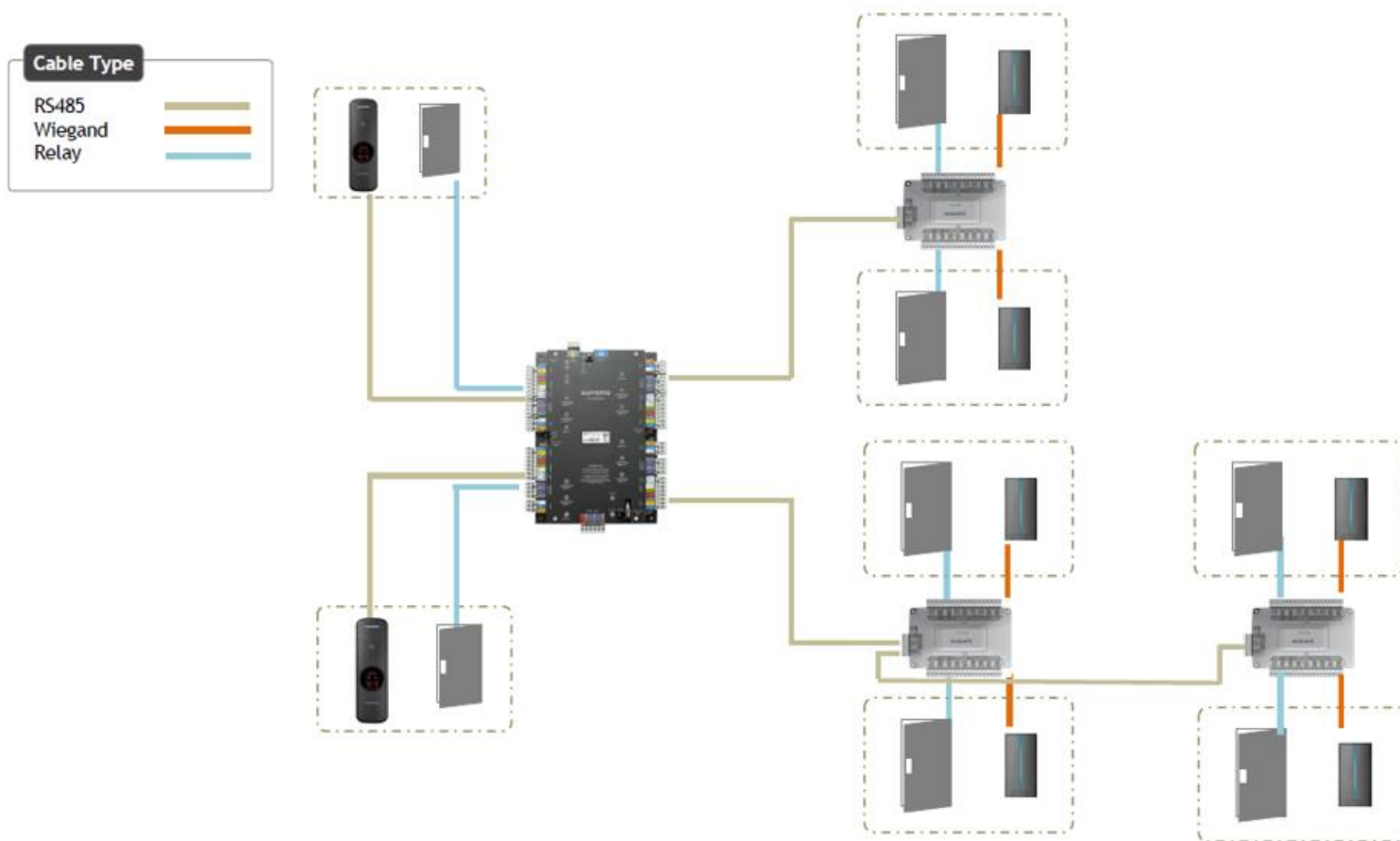
## ✓ 4 Door Configuration





# CoreStation System – Configuration by Wiegand

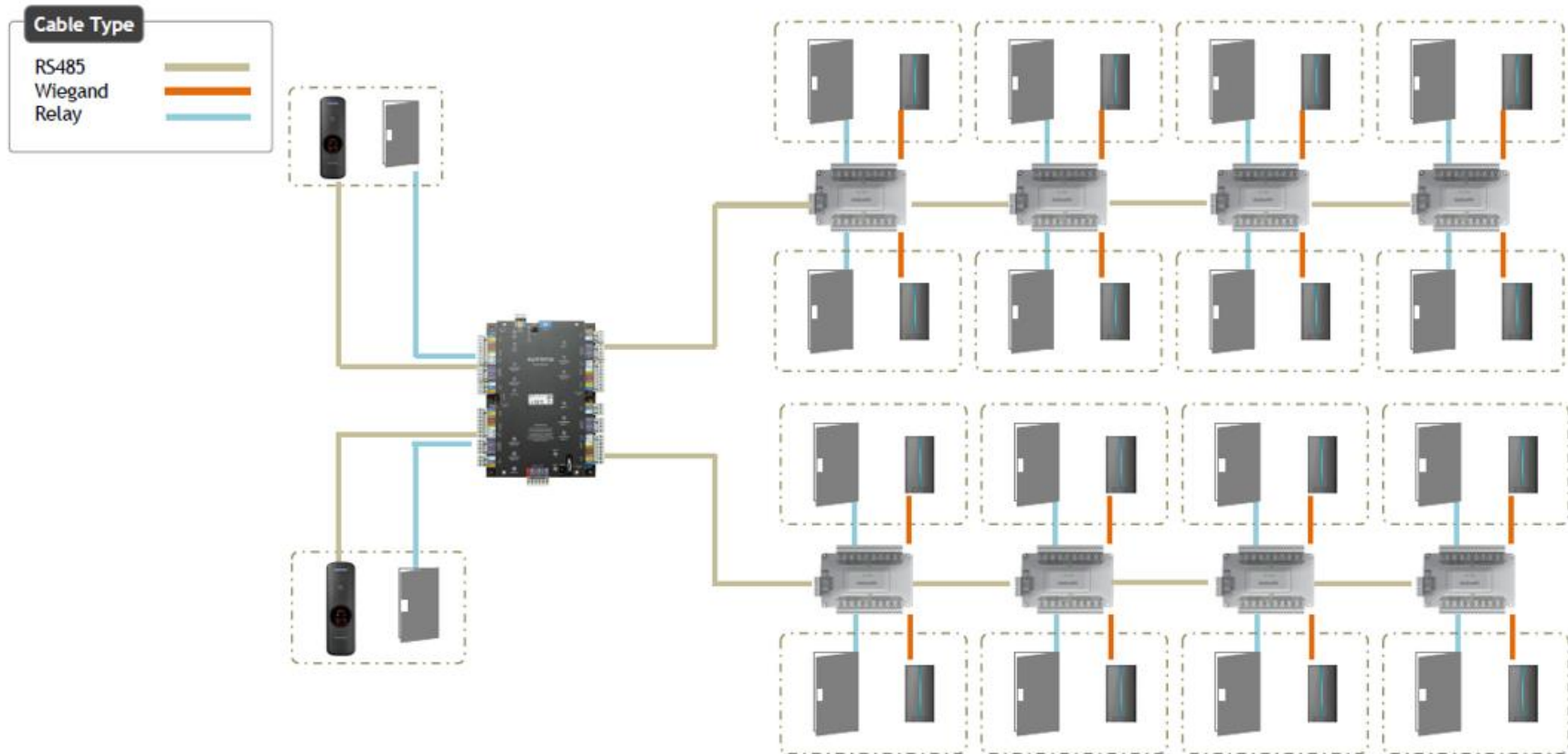
## ✓ 8 Door Configuration





# CoreStation System – Configuration by Wiegand

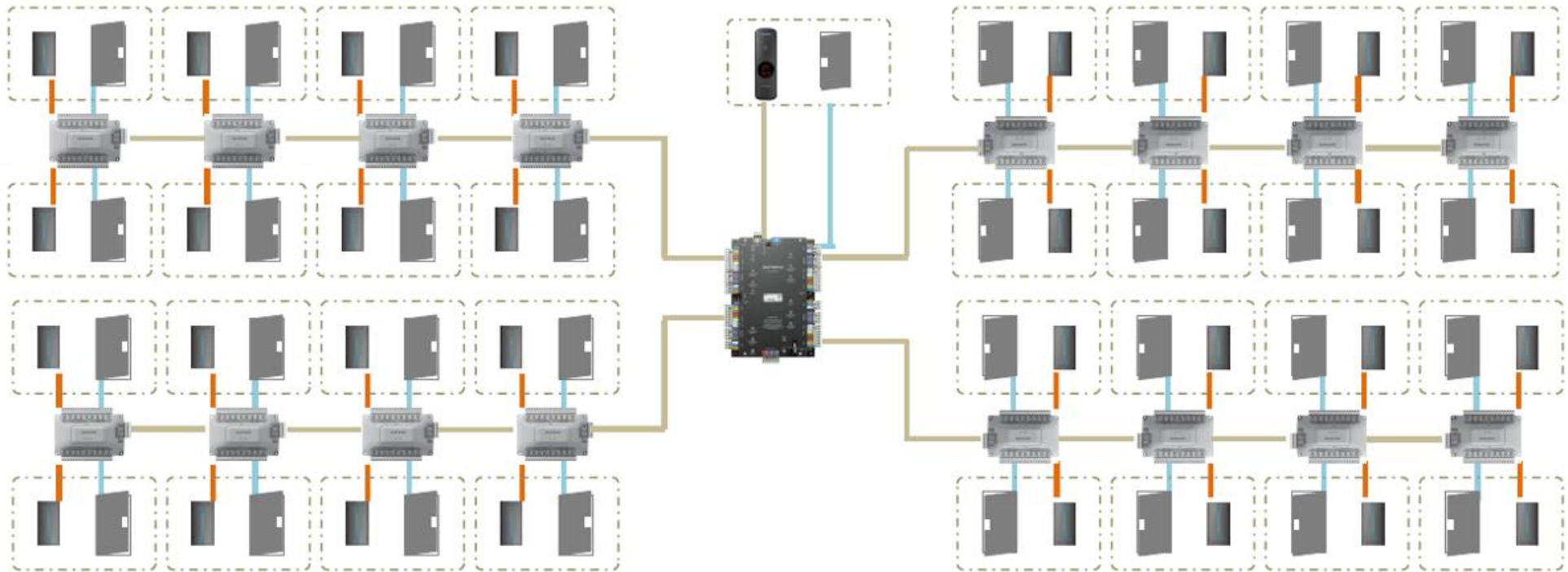
## ✓ 18 Door Configuration





# CoreStation System – Configuration by Wiegand

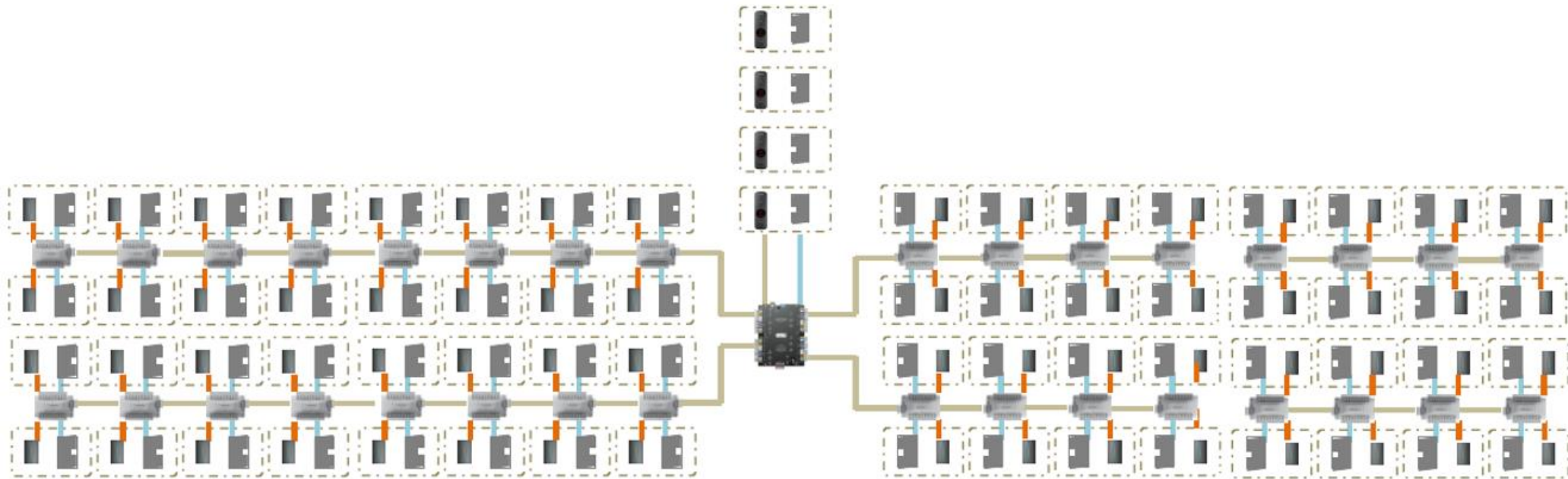
## ✓ 33 Door Configuration





# CoreStation System – Configuration by Wiegand

## ✓ 68 Door Configuration

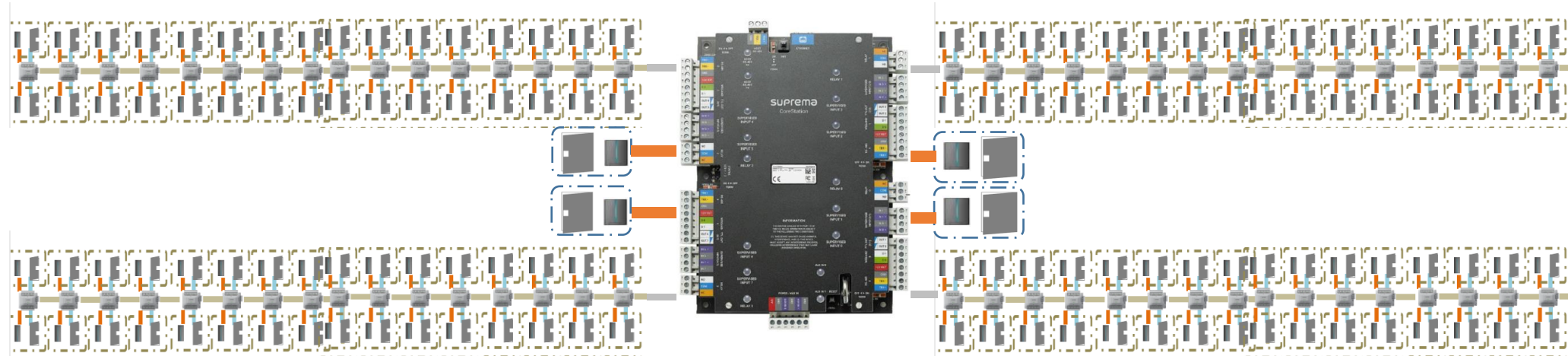




# CoreStation System – Configuration by Wiegand

## ✓ 132 Door Configuration

- 64 DM-20 slave devices can connect to CS40 by RS485
- Up to 132 Wiegand devices can connect to CS40



132 doors  
by 1ea CS40



## **II. How to Install A CoreStation System?**



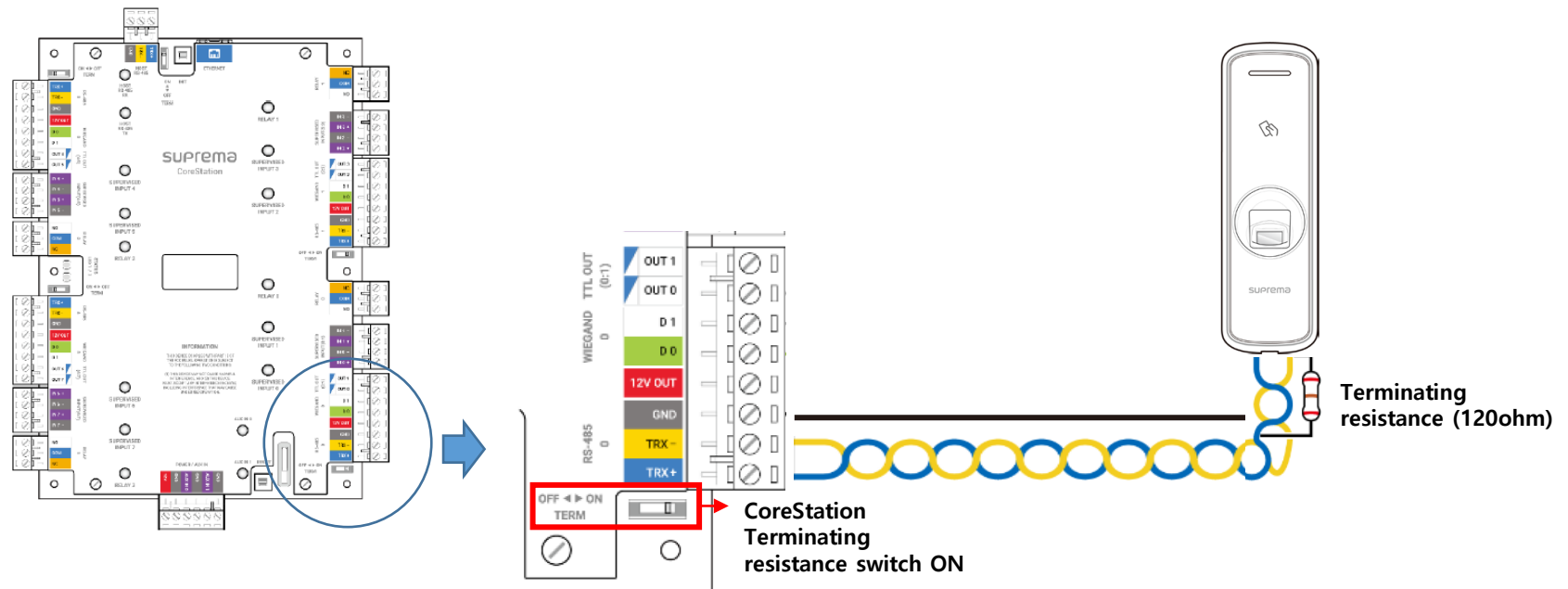
**H/W Installation (Demo Video)**



# CoreStation H/W Installation

## ✓ Caution

The RS-485 transmission system requires **AWG 24 twisted-pair** cables for best results, to maximize its noise rejection characteristics. The characteristic impedance of the cable is recommended to be 120 ohms.

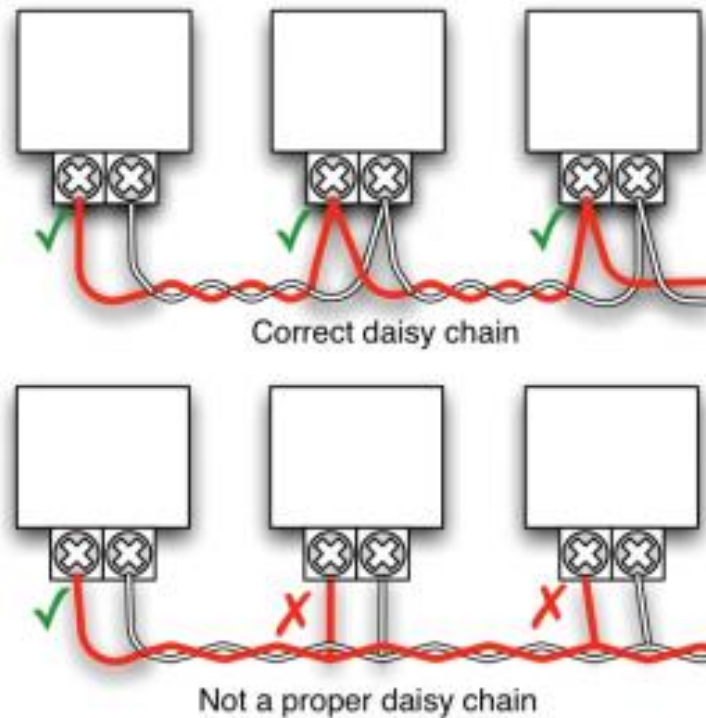




# CoreStation H/W Installation

## ✓ Caution

How to connect RS485 cables by daisy chain in correct way?





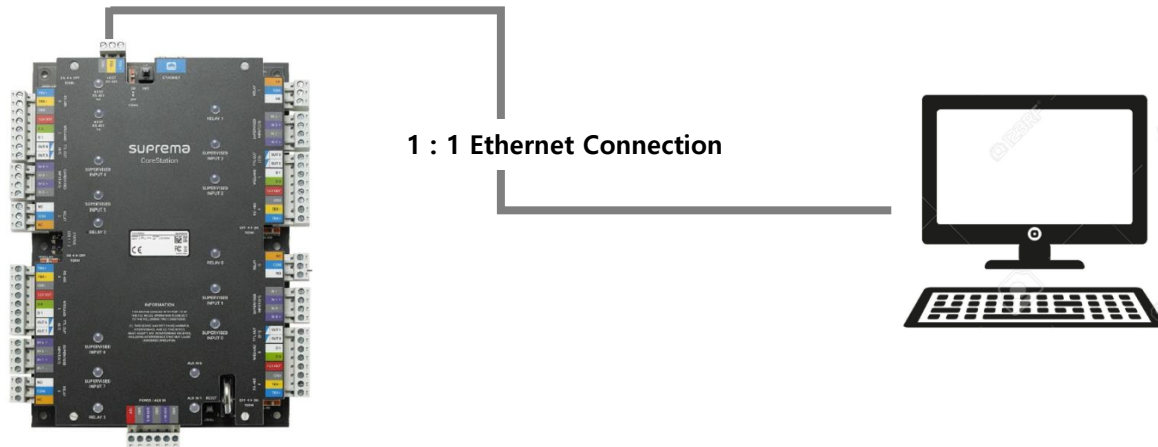
# **CoreStation Network Setting**



# How to install CoreStation System

## ✓ CoreStation network setting by SETUP Manager

You can configure CoreStation network setting by connecting CoreStation to PC directly without requiring connection to the central software.





# How to install A CoreStation System

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- ✓ CoreStation network setting by SETUP Manager

## CoreStation SETUP Manager (Demo Video)

<https://www.youtube.com/watch?v=6Q8lxUXsA0M&t=6s>



# How to install A CoreStation System

---

## ✓ CoreStation SETUP Manager

- Easily manage network settings
- Test slave device connections
- Check status of inputs and outputs
- Easy to find controller even network broadcasts cannot find it

**It saves a lot of time for installer in first stage of software.**



---

## **III. How to sell A CoreStation System?**



# Unique Sales Propositions



## Scalability

- Suitable for small to enterprise system
- Flexible architecture allows the most cost-effective solution
- Easy to update software from SMB to Enterprise system.



## Flexibility

- Support all type of credentials (Card, Biometrics, Mobile)
- Compatible with all standard readers
- Stores up to 500,000 users
- Open Platform for 3<sup>rd</sup> party integration (Milestone, HR System, SIP, PSIM etc. )



## Secure

- Secure biometric data protection (Encrypted by 256bit AES)
- Secure communication between CS-40 and central server (TLS 1.2 including SSL/HTTPS)
- GDPR Compliance



## User Friendly

- Easy setup and configuration via webserver and App
- Easily accessible by client without software installation
- Automatic f/w update notice
- Easy overview of system status by dashboard
- Event reporting by e-mail
- Time & Attendance / Visitor management





## **Scalability**

- **Suitable for small to enterprise system**
- **Easy to update software from SMB to Enterprise system**
- **Flexible architecture allows the most cost-effective solution**



# Sales Strategy

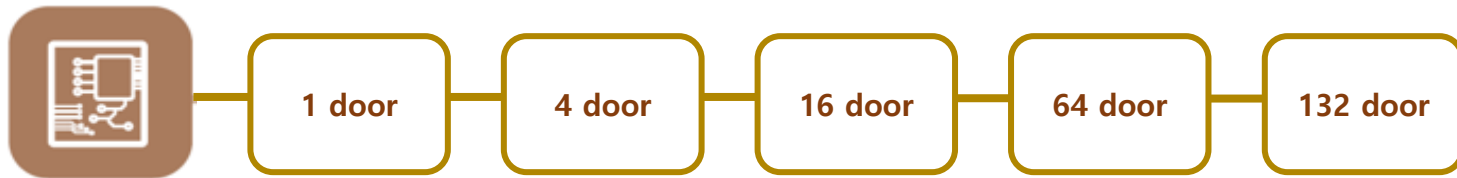
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## Scalability

- Suitable for small to enterprise system

Scalable from 1 door to 132 doors





# Sales Strategy

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## Scalability

- Easy to update software from SMB to Enterprise system

Easy to add advanced features





# Sales Strategy



## Scalability

- Flexible architecture allows the most cost-effective solution -> **Suprema 4 DOOR ACCESS CONTROL PACKAGE for SMB Market**



	Component
CS40-KIT-1	CS40(1ea) / XPD2-MDB(4ea)
CS40-KIT-2	CS40(1ea) / XPD2-GDB(4ea)
CS40-KIT-3	CS40(1ea) / XPD2-GKDB(4ea)
CS40-KIT-4	CS40(1ea) / BER2-OD(4ea)

✓ The cost per door is competitive





## Flexibility

- Support all type of credentials (Card, Biometrics, Mobile)
- Compatible with all standard readers
- Stores up to 500,000 users
- Open Platform for 3rd party integration (Milestone, HR System, SIP, PSIM etc. )

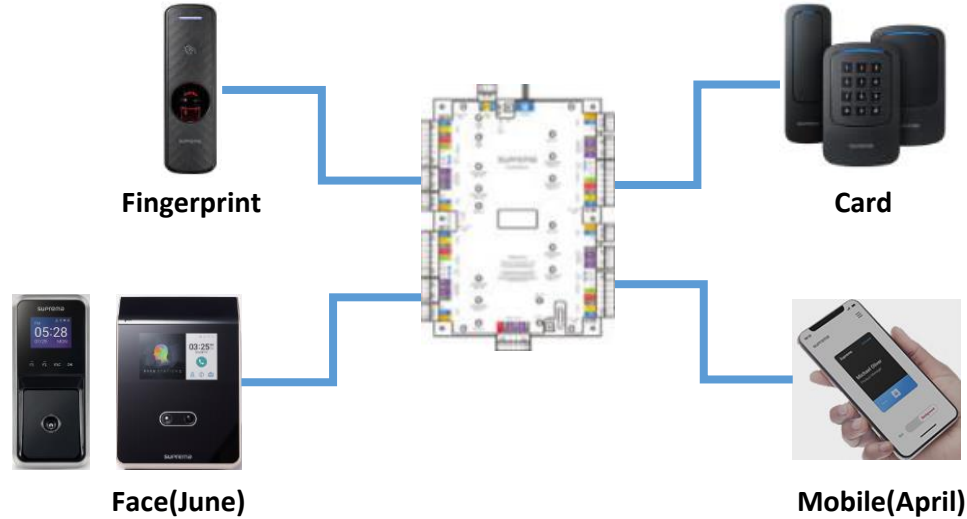


# Sales Strategy



## Flexibility

- Support all type of credentials (Card, Biometrics, Mobile)





# Sales Strategy

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**Flexibility** ▪ Support all type of credentials (Card, Biometrics, Mobile)



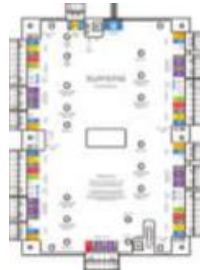


## Sales Strategy



### Flexibility

- Compatible with all standard readers



3<sup>rd</sup> party



**125kHz EM/Prox & 13.56MHz MIFARE,  
MIFARE Plus, DESFire/EV1, Felica**



## Sales Strategy



### Flexibility

- Open Platform for 3rd party integration -

- With Professional license or higher

**1.  
Install  
BioStar 2**

**2.  
Configure  
BioStar 2**

**3.  
Install  
Milestone  
Xprotect VMS**

**4.  
Install BioStar2  
Integration  
For Milestone  
XProtect**

**5.  
Use  
Xprotect Smart  
Client**

- Enroll the users
- Register the devices
- Create the doors
- Create the zones
- Configure the elevators
- Configure the alarm

- AC Plugin for BioStar2
- Workspace Plugin for BioStar 2



## Sales Strategy



## Flexibility

- **Open Platform for 3rd party integration**

Create Access Control System Integration

## Create access control system integration

Name the access control system integration, select the integration plug-in and enter the connection details.

Name: BioStar2

Integration plug-in: BioStar2 Server

주소: https://

사용자 ID: admin

비밀번호: ●●●●●●●●●●●●

HTTP 암호화 사용: ☐

- **Name:** Enter the desired name of the plug-in.
- **Integration plug-in:** Select **BioStar 2 Server** from the list.
- **Address:** IP address of BioStar 2 server.
- **User:** Enter the login ID for BioStar 2.
- **Password:** Enter the password for BioStar 2.

Next Cancel

The screenshot displays the Milestone XProtect Smart Client interface. The top menu bar includes Live, Playback, Search, Alarm Manager, BioStar2, Access Control, and Setup. The main window shows a dashboard for BioStar 2, featuring a line graph titled 'Overview' for the period 'April 2019 ~ March 2020'. The graph shows a red line representing 'Access denied' events, with a total count of 12. Below the graph, a camera feed labeled 'XHO-6080R (192.168.14.156) - Camera 1' shows a hand holding a sign that says 'FAIL...' with a drawing of a face with two pi symbols ( $\pi$ ) for eyes. A notification window on the right indicates an 'Access request - (임시 정지) BioStation A2...' at 1:58 PM on 2020-03-18.



# Sales Strategy

BioStar2 Partner



## Secure

- Secure communication between software and CS40(TLS 1.2)
- Secure biometric data protection (Encrypted line security 128bit for RS485 OSDP)
- UL 294 / GDPR Compliance



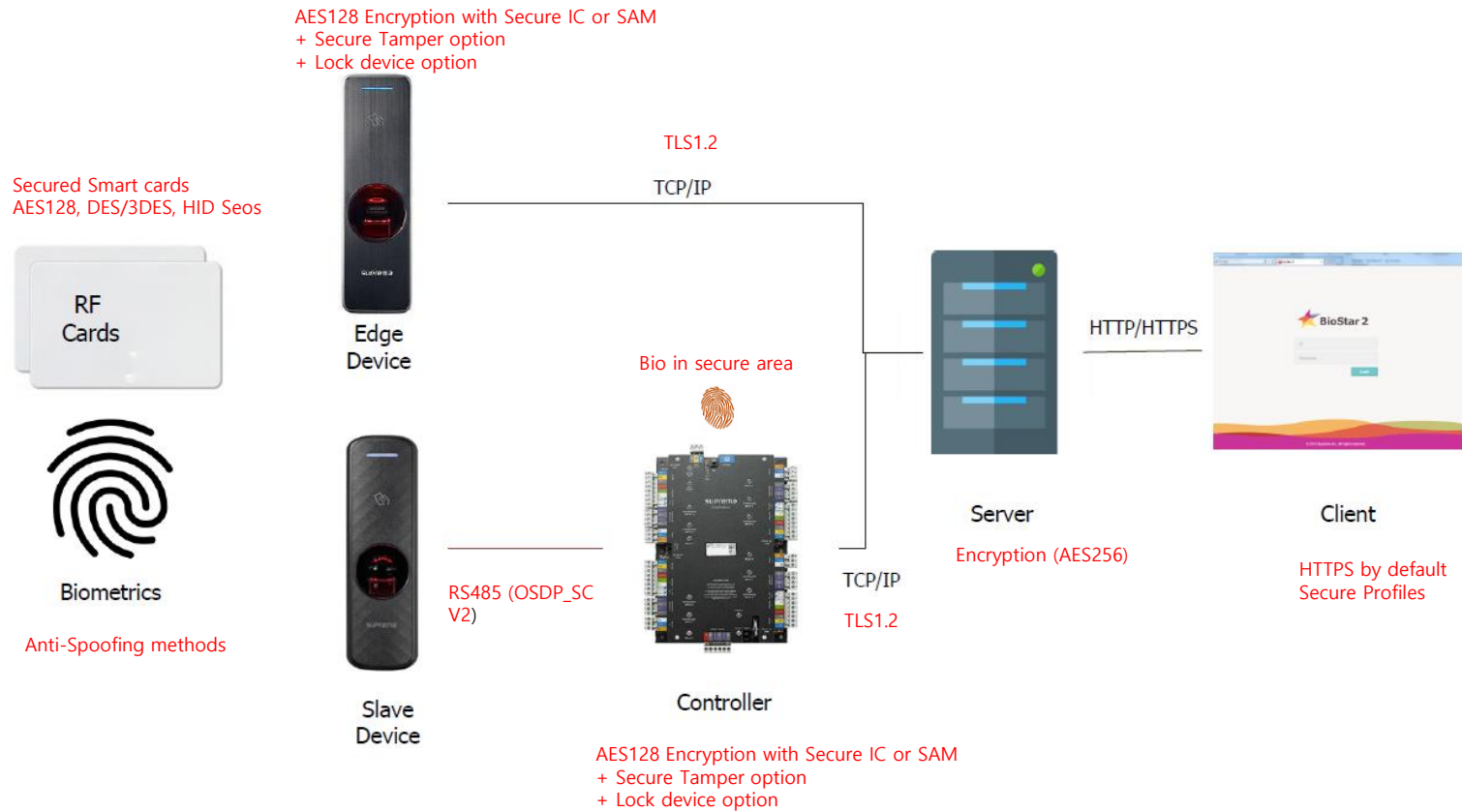
UL 294 (Targeting in 3Q)





# Sales Strategy

BioStar2 Partner

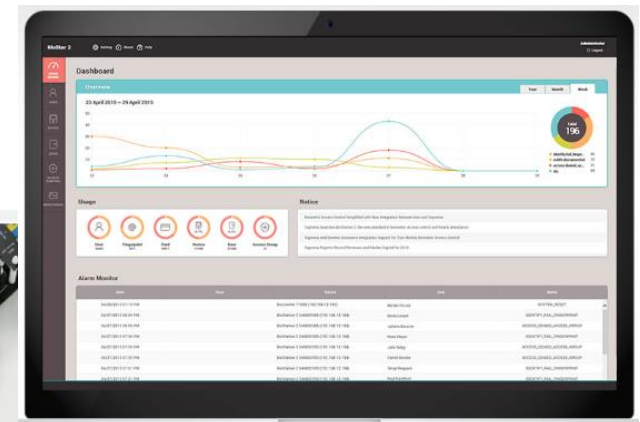
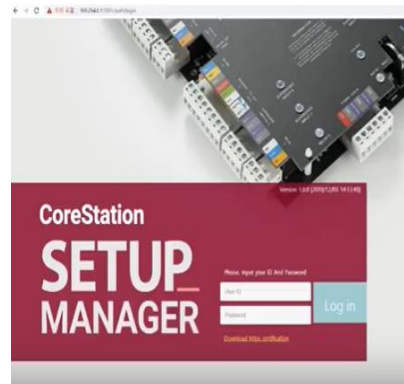






## User Friendly

- Easy setup and configuration via webserver and App
- Easily accessible by client
- Automatic f/w update notice
- Easy overview of system status by dashboard
- Event reporting by e-mail
- Time & Attendance / Visitor management





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## IV. Case Study

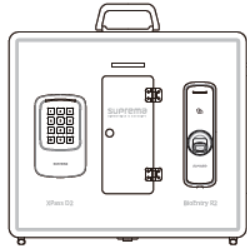
[https://www.supremainc.com/uploadfiles/Marketing\\_Materials/20200120111425875.pdf](https://www.supremainc.com/uploadfiles/Marketing_Materials/20200120111425875.pdf)



## CoreStation Demo Kit

### WIRING GUIDE

CoreStation  
DM-20  
BioEntry R2  
XPass D2



suprema

### Suprema Inc.

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For more information about Suprema's global branch offices,  
visit the webpage below by scanning the QR code.  
<https://www.supremainc.com/en/about/contact-us.asp>



### Components



CoreStation Demo Kit Box



CoreStation Demo Kit  
Wiring Guide



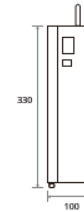
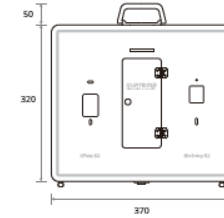
LED Light Bar



Plastic Mold Bar

### Dimensions

(Unit: mm)



### Components: CoreStation



CoreStation



Fixing Screw x12



Spacer x6

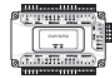


Quick Guide



Open Source Software  
Guide

### Components: DM-20



DM-20



PVC Anchor x4



Wall Fixing Screw x4



Bracket



120 Ohm resistor



Diode x2



Support Boss x4

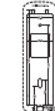
### Components: BioEntry R2



BioEntry R2



Wall Bracket



Drilling Template



Connection Cables  
(2-pin, 4-pin)



Ferrite Core



120 Ohm resistor



Diode



Wall Fixing Screw x2



PVC Anchor x2



Quick Guide



Open Source Software  
Guide

### Components: XPass D2



XPass D2



Wall Bracket



Drilling Template



PVC Anchor x2



Wall Fixing Screw x2



Bracket Fixing Screw  
(Star Shaped)



120 Ohm resistor



Shrink Tube



Quick Guide



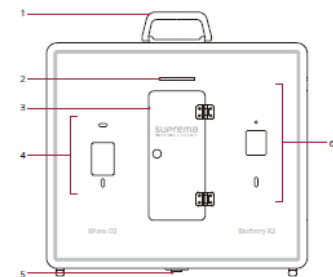
Open Source Software  
Guide





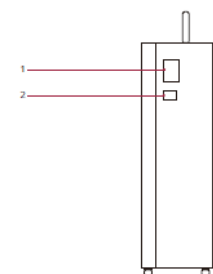
## Name of each part: Outside

Front



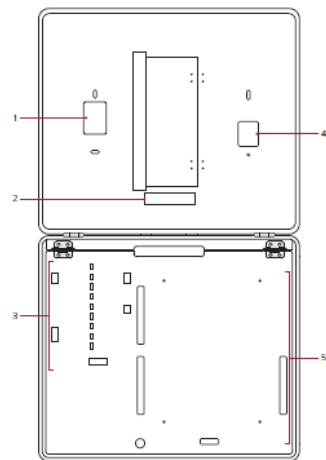
No.	Name	Description
1	Handle	The handle can be used to carry the demo kit. Make sure the demo kit is locked when moving.
2	LED Indicator	If authentication is successful, the LED indicator lights up.
3	Door	If authentication is successful, the door will unlock and open.
4	XPass D2 Mounting Area	Mount the XPass D2 bracket on the Demo kit using the fixing screws. Insert the cable of the XPass D2 into the cable hole and mount the XPass D2 to the bracket.
5	Lock	Lock the demo kit.
6	BioEntry R2 Mounting Area	Mount the BioEntry R2 bracket on the Demo kit using the fixing screws. Insert the cable of the BioEntry R2 into the cable hole and mount the BioEntry R2 to the bracket.

Right side



No.	Name
1	Power Cable Hole
2	Ethernet Cable Hole

## Name of each part: Inside



No.	Name	Description
1	XPass D2 Cable Hole	Cables on the outside mounted XPass D2 can be pulled in through this hole.
2	LED Light Bar Adhesion Area	Attach the LED light bar to this area using double-sided tape.
3	DM-20 Mounting Area	Mount the DM-20 bracket on this area using the fixing screws. Insert the cable of the DM-20 into the cable hole and mount the DM-20 to the bracket.
4	BioEntry R2 Cable Hole	Cables on the outside mounted BioEntry R2 can be pulled in through this hole.
5	CoreStation Mounting Area	Mount the CoreStation on this area using the fixing screws and spacers.

## CoreStation SETUP Manager

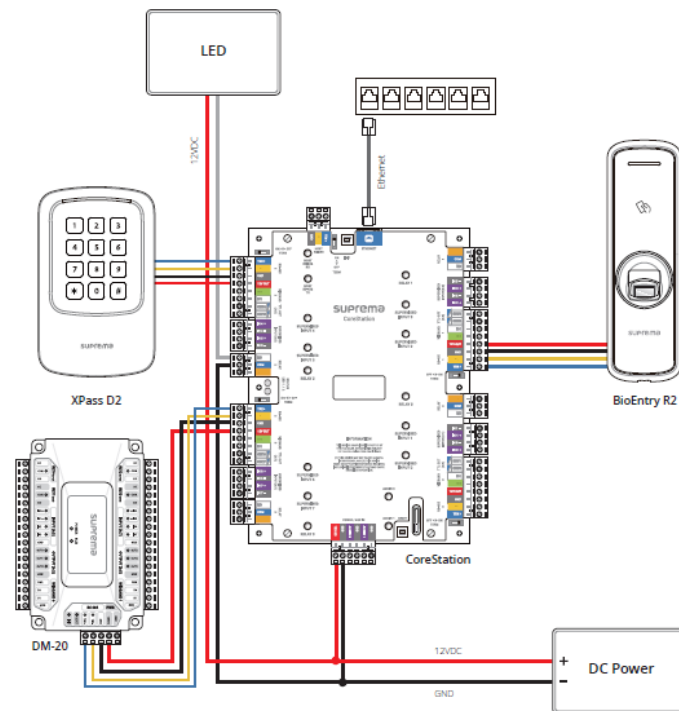
CoreStation SETUP Manager is a program that allows users to connect CoreStation to the PC directly to view or manage the network settings of CoreStation and monitor the status of slave devices, input and output ports.

1. Connect CoreStation to the PC with an Ethernet cable.
2. Enter <https://169.254.0.1:3001> in the address input field of the web browser to access the CoreStation SETUP Manager.

### NOTE

- CoreStation SETUP Manager is supported with CoreStation firmware version 1.3.1 or later.
- For more information on connecting and configuring the CoreStation SETUP Manager, refer to the user guide. You can download the user guide from the Suprema website ([www.supremainc.com](http://www.supremainc.com)).

## Wiring Guide



### NOTE

- Use the correct power specifications (12V DC, 3A).
- Use an AWG24 twisted pair with a maximum length of 1.2 km for the RS-485 cable.
- Connect terminating resistance (120 Ω) to both ends of the RS-485 daisy chain connection. If connected to the middle line, the signal level will weaken and the communication performance will deteriorate. Make sure to connect it to both ends of the daisy chain connection. Set the termination switch (TRRM) to ON for CoreStation.
- When wiring the LED light bar, connect NO relay as shown in the figure above.
- Neatly organize the cables of the readers and DM-20 with aluminum mold bars.





# Thank you!