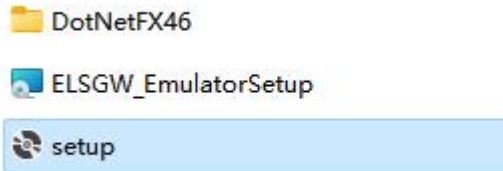


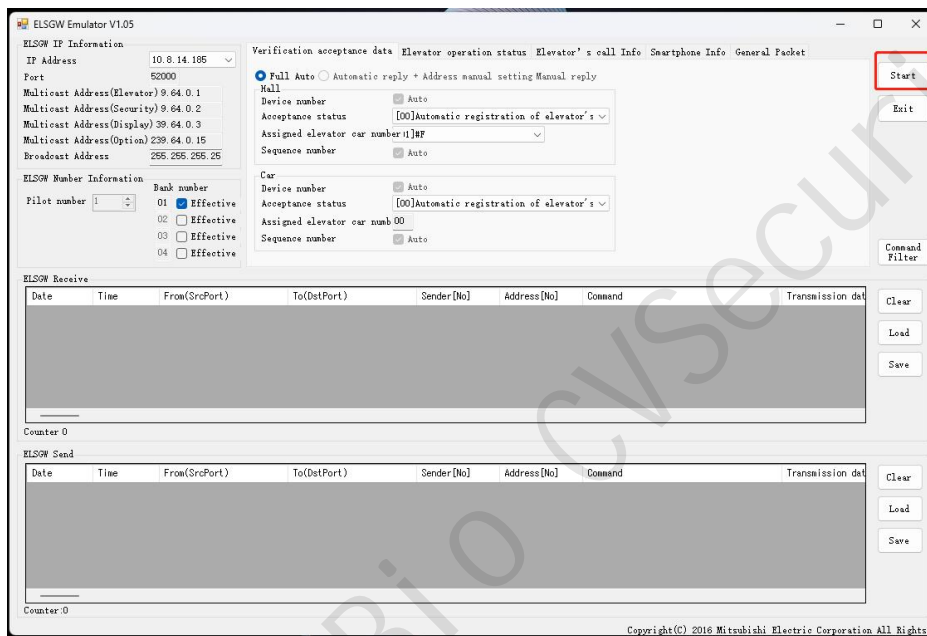
# 1 ELSGW Emulator (Simulated Elevator)

## 1.1 Download and run ELSGW Emulator

Open the installation package, double click [Setup] file, and install according to the prompt.



Open the emulator after successful installation, and click [Start].



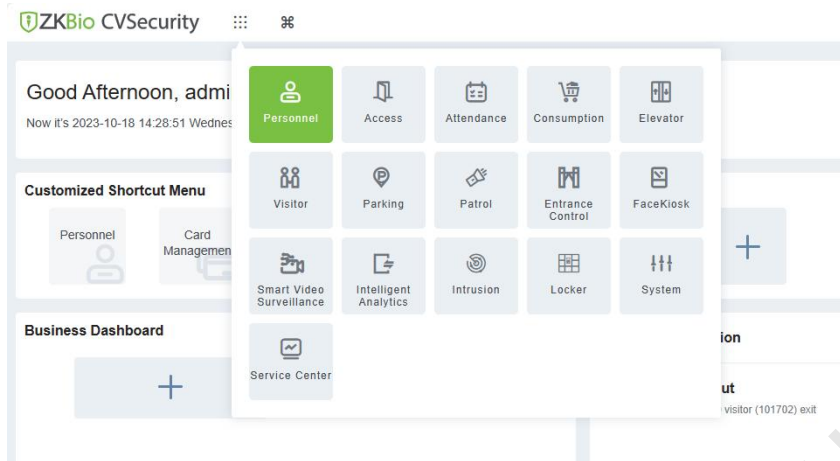
**Note:** The ELSGW and ZKBio CVSecurity software cannot be installed on the same computer.

## 2 Personnel

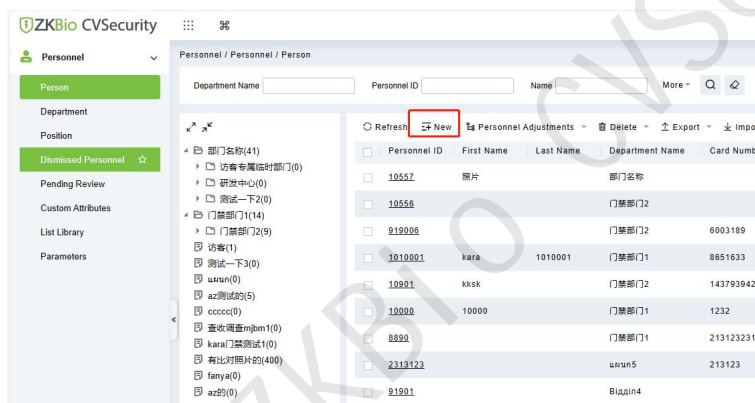
### 2.1 Add Personnel

#### Steps:

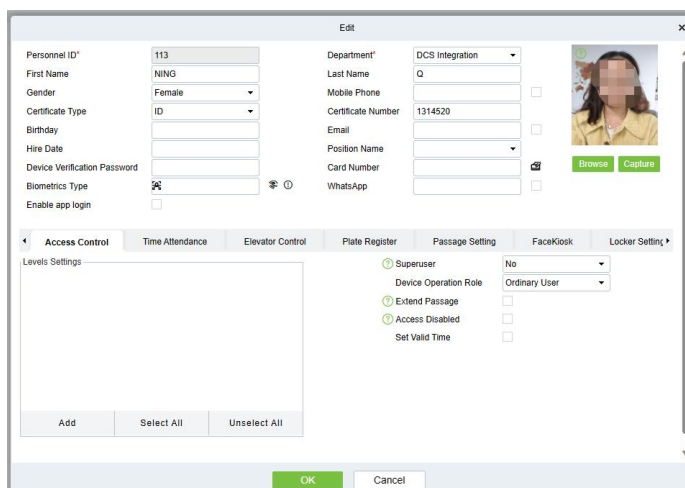
1. Login to the ZKBio CVSecurity Software, and click [Personnel] Module



2. Click [New]



3. Fill in the relevant personnel information, remember to upload the profile and use it as a comparison photo, and then save the personnel information.

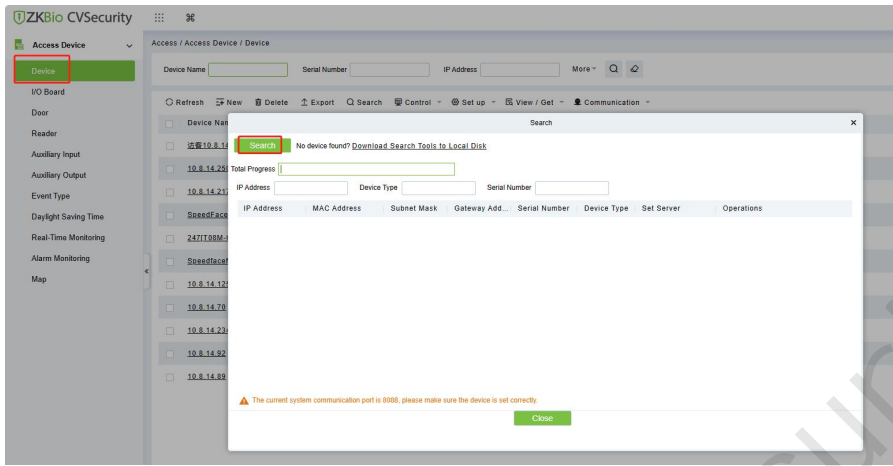


### 3 Access Control

#### 3.1 Add a access control device

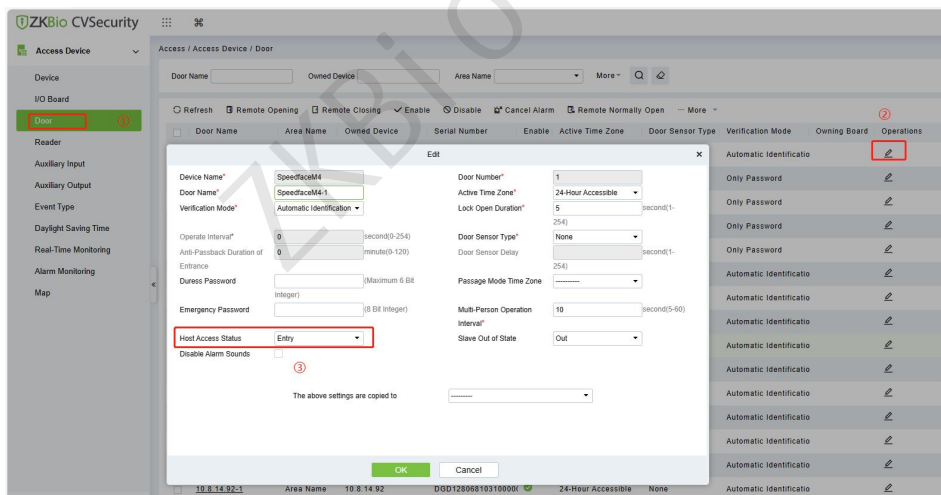
Login to the ZKBio CVSecurity Software, and click [Access] >[Search], and add an access control device. For more details on how to add access control devices, please refer to the following video:

[https://www.youtube.com/watch?v=R6\\_14pNL8\\_c&list=PLXE1qTO1nQc9u1KunbXVBnsCRg3wqeGC7&index=1](https://www.youtube.com/watch?v=R6_14pNL8_c&list=PLXE1qTO1nQc9u1KunbXVBnsCRg3wqeGC7&index=1)



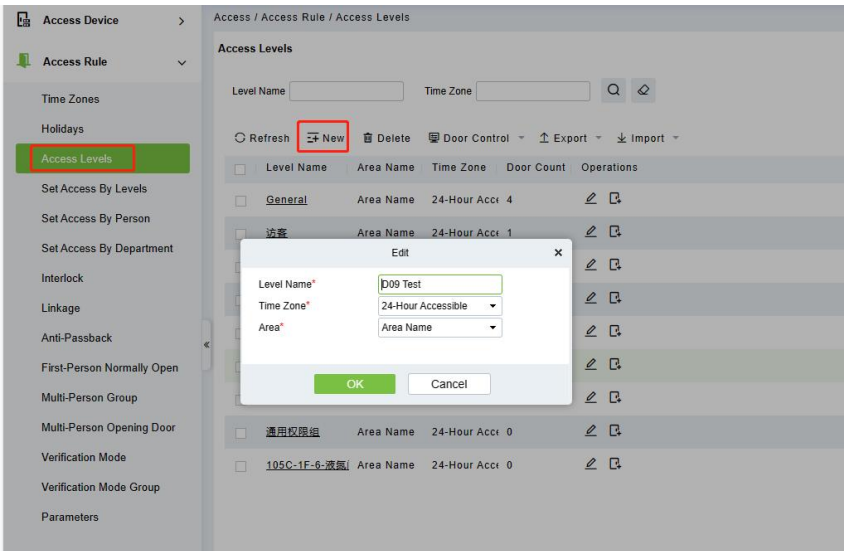
In Access > [Access Device] > [Door], check the Status of Host Access Status, which affects the selection of reader in the subsequent elevator configuration.

Host Access Status-Entry	The reader uses the Device Name-In reader
Host Access Status-Out	The reader uses the Device Name-Out reader

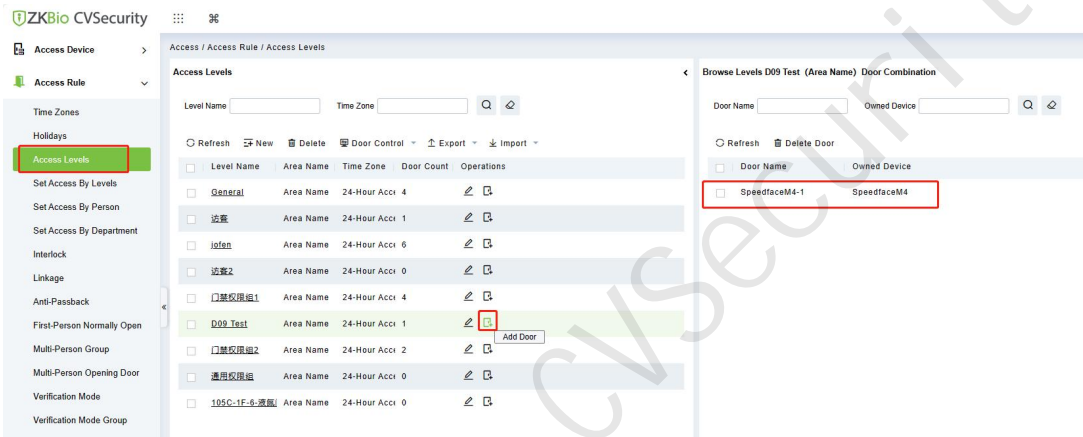


#### 3.2 Set Access Level

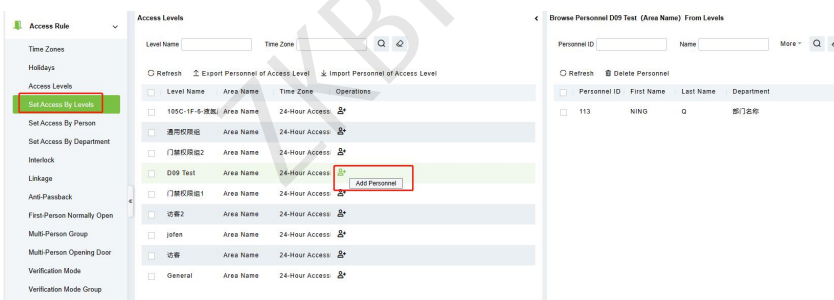
Click [Access Levels] > [New], and create a new access level.



Click [Add Door] for the access level that we just added.



Click [Set Access By Levels], and click [Add Personnel] for the access level that we just added.

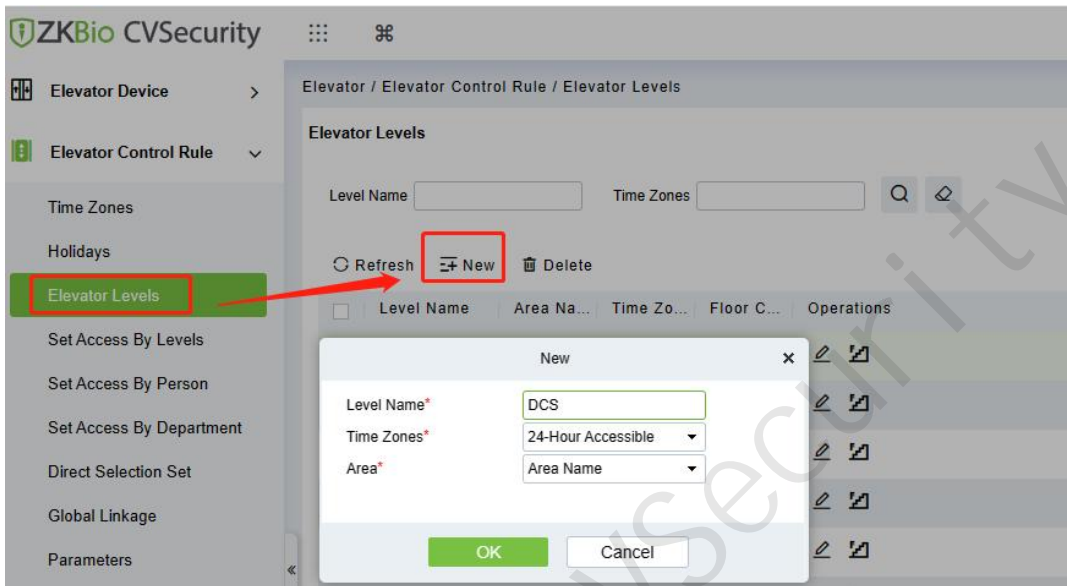


## 4 Elevator

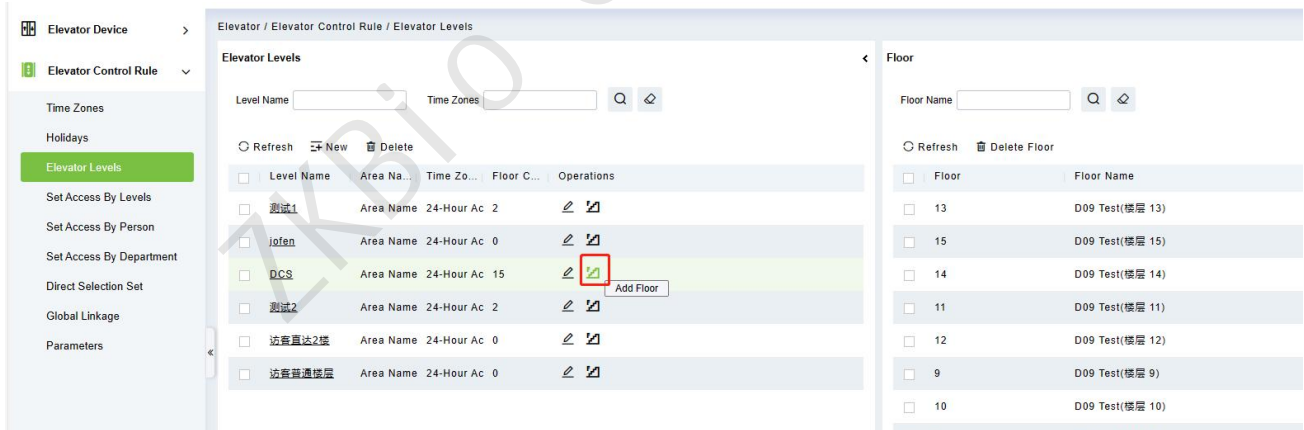
### 4.1 Elevator Control Rule

#### 4.1.1 Elevator Access

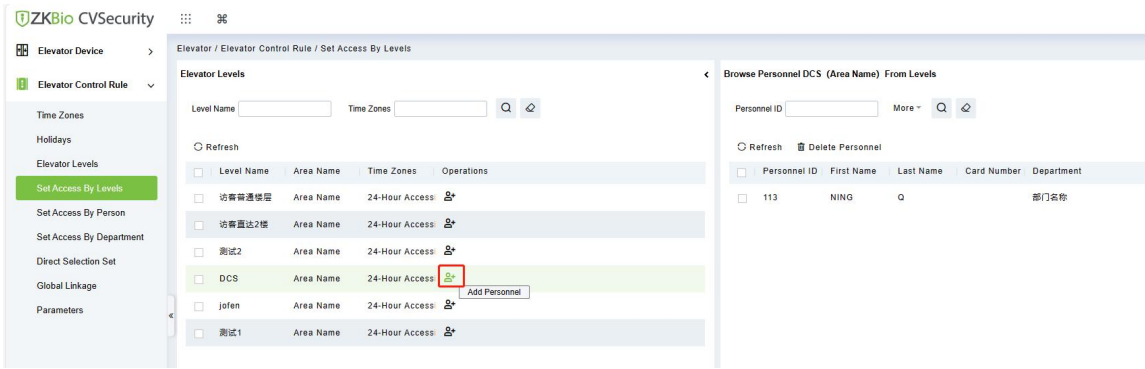
Click [Elevator Control Rule] > [Elevator Levels] > [New], create a new elevator access level.



Click [Elevator Control Rule] > [Elevator Levels] > [Add Floor], add the relevant floors for the access level.



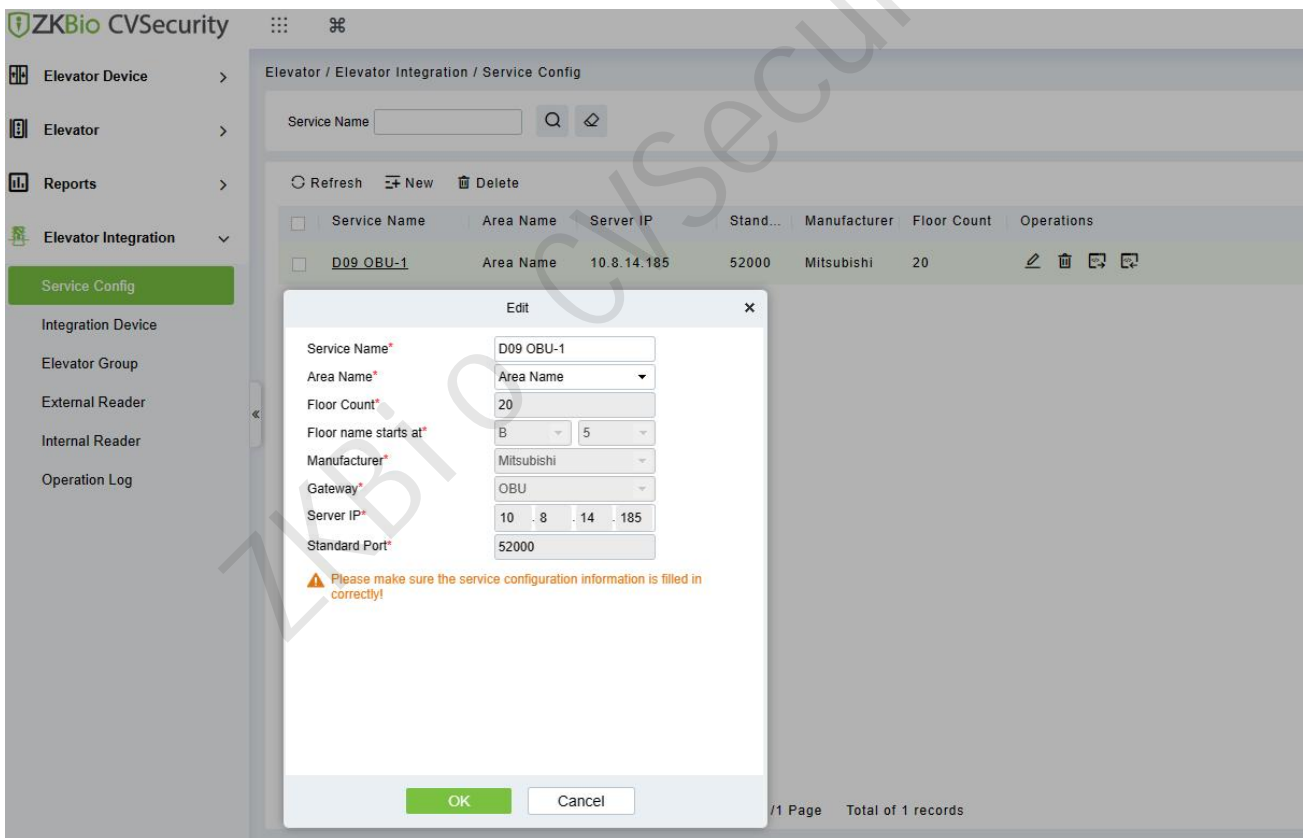
Click [Elevator Control Rule] > [Elevator Levels] > [Set Access By levels]>[Add Personnel], add the relevant personnel to the access level.



## 4.2 Elevator Integration

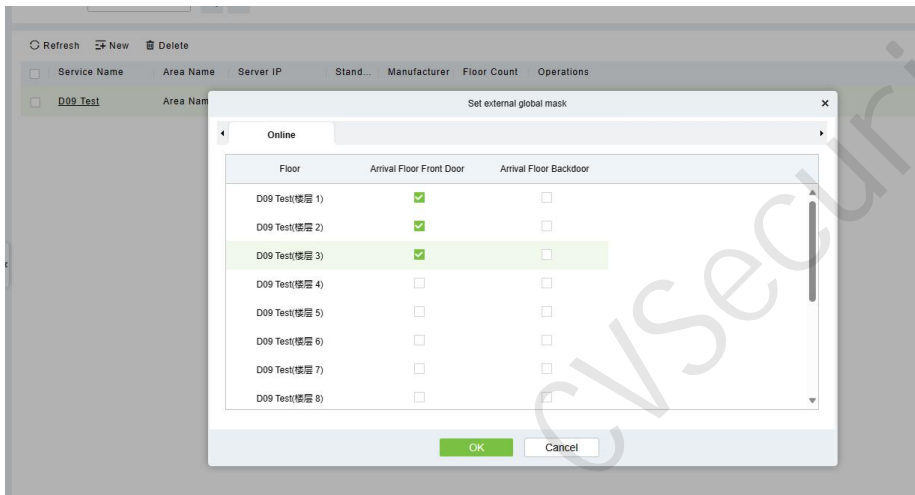
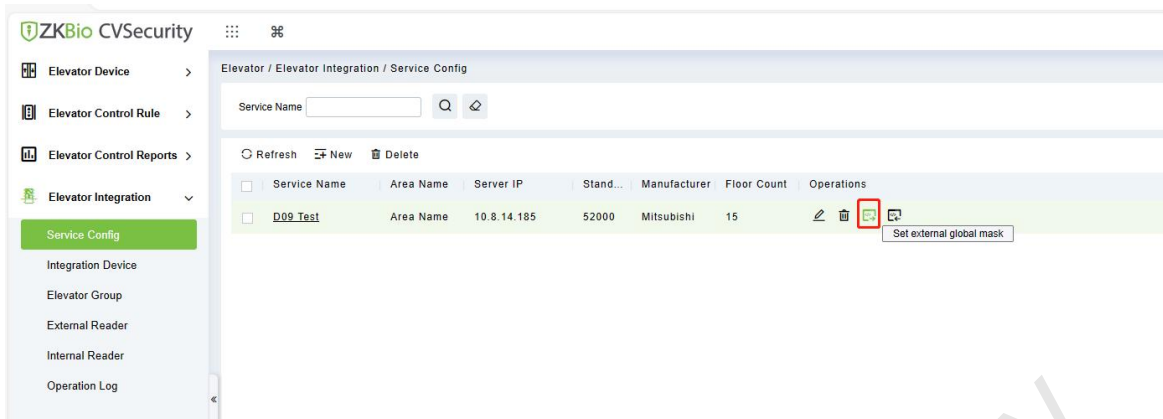
### 4.2.1 Service Config

Login to the ZKBio CVSecurity Software, and click [Elevator] Module, click[Service Config]>[New], and fill in the information.

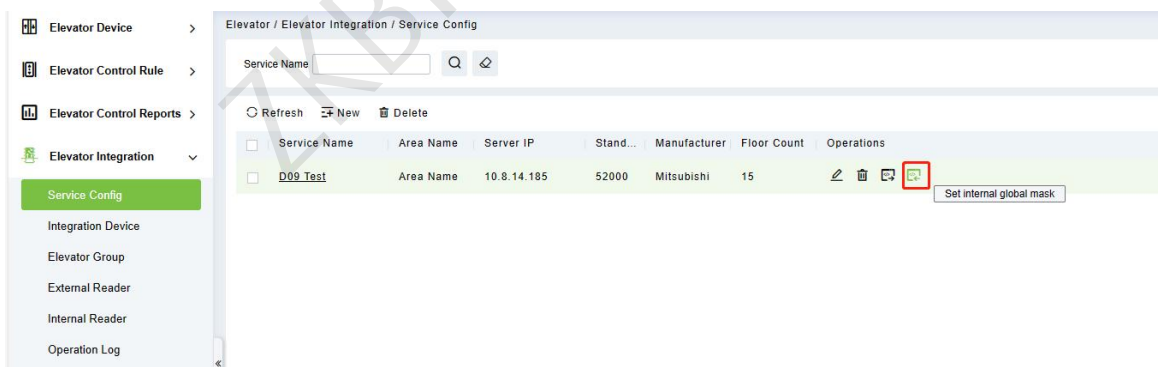


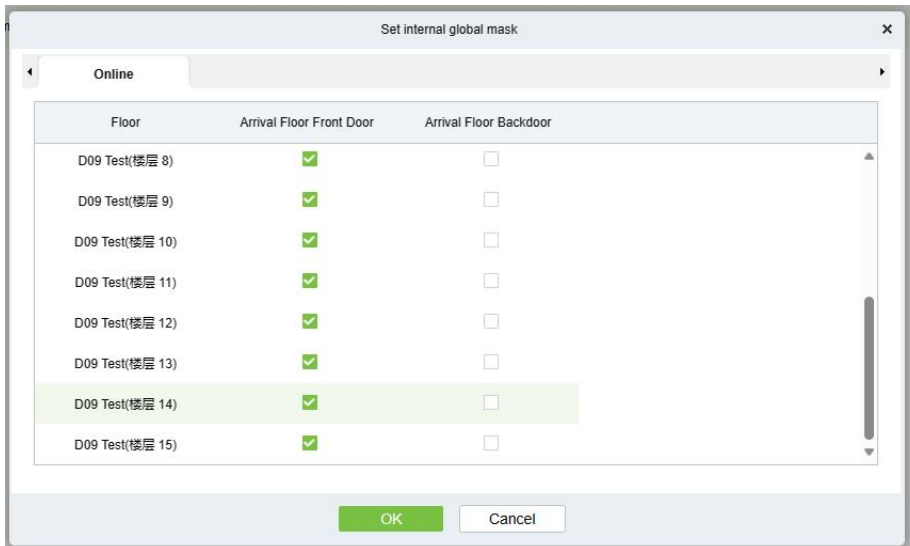
<b>Service Name</b>	User-defined	<b>Manufacturer</b>	Mitsubishi
<b>Area Name</b>	Based on the actual situation	<b>Gateway</b>	ELSGW/OBU
<b>Floor Count</b>	Based on the actual situation	<b>Server IP</b>	The computer IP where the ELSGW Emulator is installed
<b>Floor name starts at</b>	Based on the actual situation	<b>Standard Port</b>	52000(default)

Click [Set external global mask], and select the arrive situation according to the actual situation.



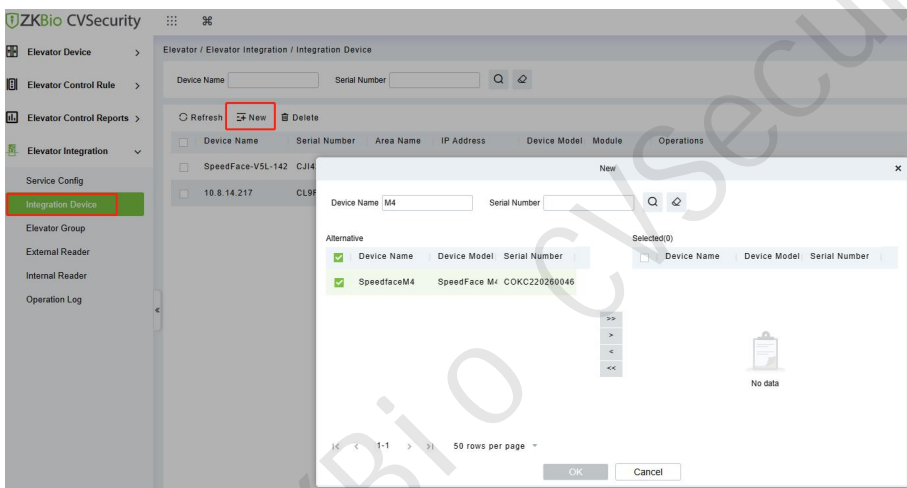
Click [Set internal global mask], and select the internal situation according to the actual situation.





### 4.2.2 Integration Device

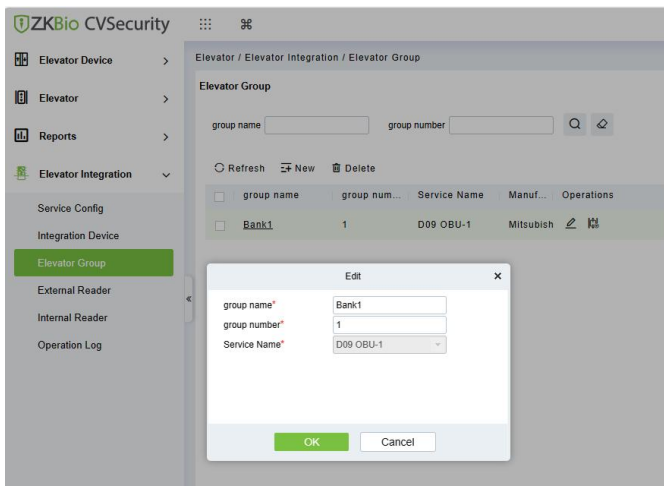
In the [Elevator] > [Integration Device] > [New], add the related access control devices.



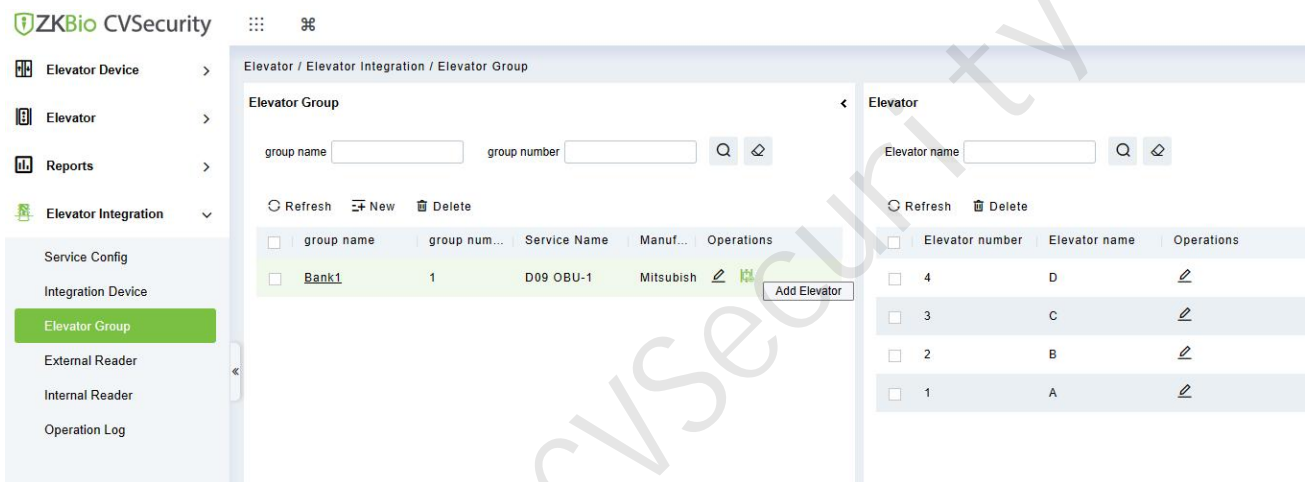
### 4.2.3 Elevator Group

In the [Elevator] > [Elevator Group] > [New], fill in the group name and group number, and select the service that we just added.





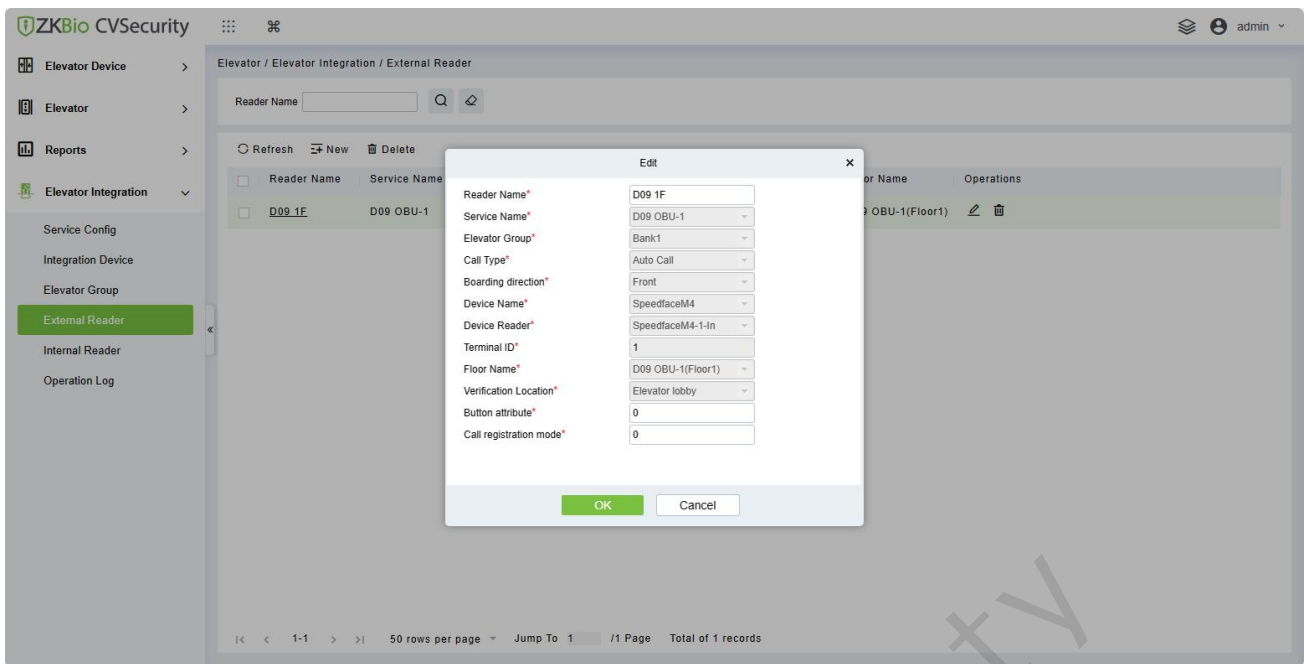
Then add the Elevator for the elevator group.



#### 4.2.4 External Reader

**Eternal Reader** refers to the reader installed outside the elevator, generally used for DOP/HOP.

In the [Elevator] > [Elevator Integration] > [External Reader] > [New], and fill in the information.

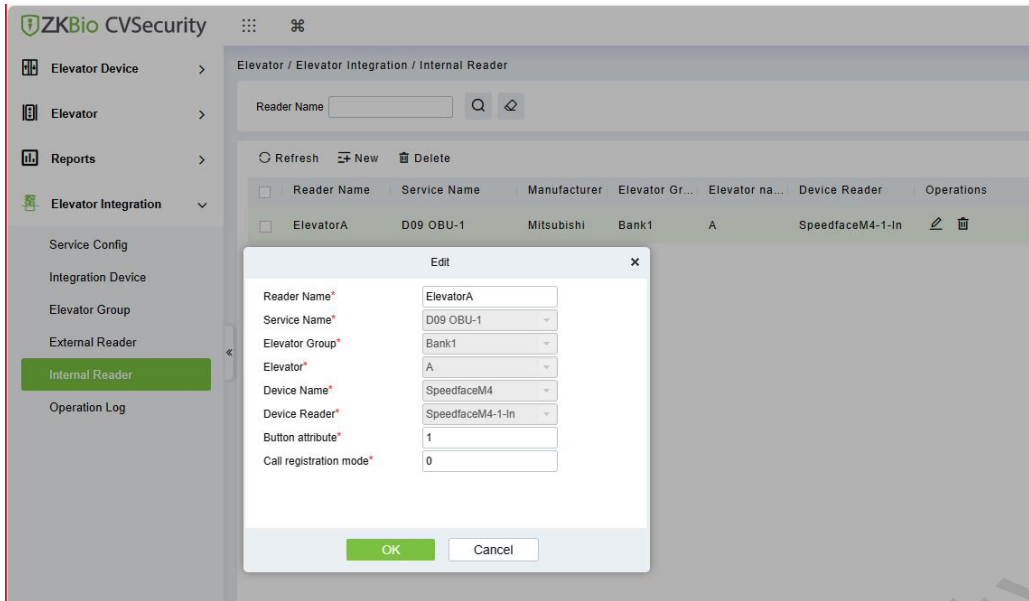


<b>Reader Name</b>	User-defined	<b>Device Reader</b>	Select the integration device based on the actual situation
<b>Service Name</b>	Select corresponding service that added in [Service Config]	<b>Terminal ID</b>	User-defined
<b>Elevator Group</b>	Select corresponding elevator group that added in [Elevator Group]	<b>Floor Name</b>	Select the floor according to the actual situation
<b>Call Type</b>	<p><b>Option 1. Manual Call:</b> which means manually calling the destination floor.</p> <p><b>Option 2: Auto Call,</b> which means the system automatically calls the user's default floor</p>	<b>Verification Location</b>	Based on the actual situation: <b>Elevator lobby / Entrance / Room / Security gate</b>
<b>Boarding direction</b>	Based on the actual situation: <b>Front / Rear</b>	<b>Button attribute</b>	User-defined
<b>Device Name</b>	User-defined	<b>Call registration mode</b>	User-defined

#### 4.2.5 Internal Reader

**Internal Reader** refers to the reader installed outside the elevator, generally used for COP.

Click [Elevator Integration]>[Internal Reader]>[New], and fill in the relevant information.



<b>Reader Name</b>	User-defined	<b>Device Name</b>	Select the integration device
<b>Service Name</b>	Select corresponding service that added in [Service Config]	<b>Device Reader</b>	Select the integration device's reader
<b>Elevator Group</b>	Select corresponding elevator group that added in [Elevator Group]	<b>Button attribute</b>	User-defined
<b>Elevator</b>	Select the elevator based on the actual situation:	<b>Call registration mode</b>	User-defined

## 5 Visitor Management

### 5.1 Visitor selects default floor

Click [Entry Registration] > [Entry Registration], then select the default floor.

New

Host/Visited *	Enter the Query Co... Q	Visit Department *		Visit Reason	
Certificate Type *	ID	Certificate No. *		Entrance *	111212
First Name *		Last Name		Gender	
Company		Mobile Phone		License Plate	
Country/Region		Visitor Quantity *	1	Carrying Goods	
Email					

Permission

Visitor Level		Start Time *	2023-11-28 15:18:47	End Time *	2023-11-28 23:59:59
Default Floor	obu(楼层5)	Card Number			

Capture

- LV obu(楼层B1)
- obu(楼层1)
- obu(楼层2)
- obu(楼层3)
- obu(楼层4)
- obu(楼层5)
- obu(楼层6)
- obu(楼层7)
- obu(楼层8)
- obu(楼层9)

Select All

Camera connected. No camera connected.

Capture Certificate Photo Capture

Save and New OK Cancel

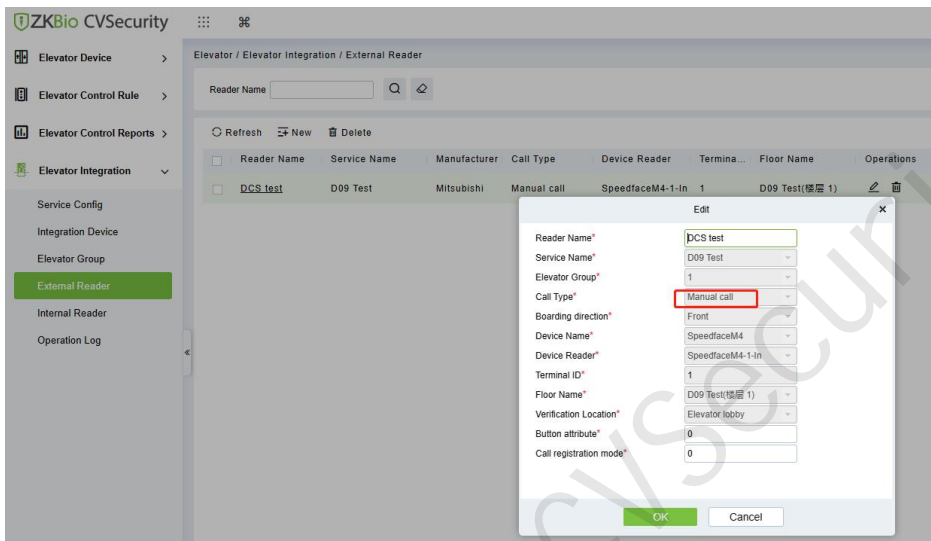
ZKBio CVSecurity

## 6 Result Verification

### 6.1 HOP-Manual Call

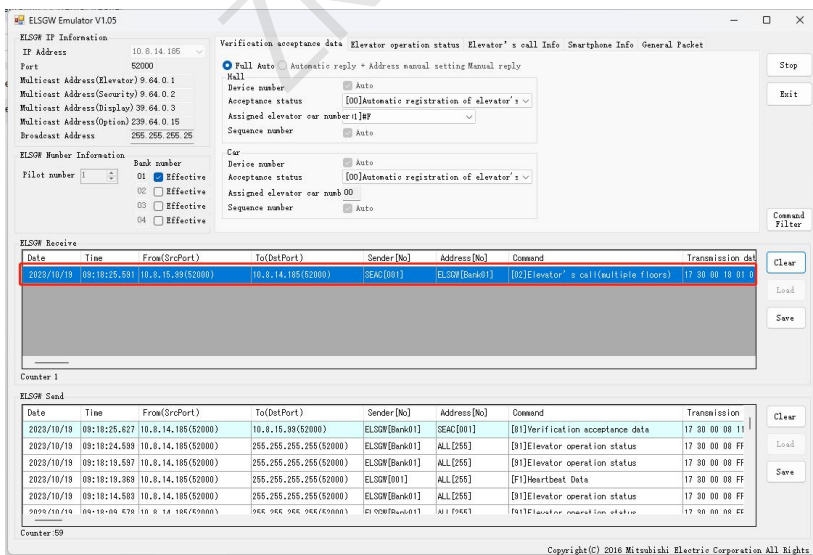
#### Major Preconditions

1. Successfully and properly start the ELSGW Emulator;
2. Successfully added the access control device, and set the access level for relevant personnel;
3. Successfully configured the elevator integration: service configuration, integration device, and elevator group.
4. Make sure to select the call type as **“Manual Call”** when we add the **Eternal Reader**.



#### Result verification

The Personnel Verifies on the access control terminal, and on the ELSGW Emulator with push the data about the authorized floors (yellow-marked), we can view the details by double-clicking one of the data in [ELSGW Receive].



Elevator's call(multiple floors)

Transmission packet header

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1780	0018	01	01	11	01	00000000

Transmission packet data

Command number	Data length	Device number	Verification type	Verification location	Hall call button riser attribute	Reserve	Boarding floor
02	14	0001	01	01	00	00	0001

Reserve	Boarding Front/Rear	Reserve	Elevator's call attribute	Nonstop	Call registration mode	Sequence number	Front destination floor data length	Rear destination floor data length
0000	01	00	02	01	00	15	02	00

Front destination floor

ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX
+00	8	7	6	5	4	3	2	1	FF
+01	16	15	14	13	12	11	10	9	7F

Rear destination floor

ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX

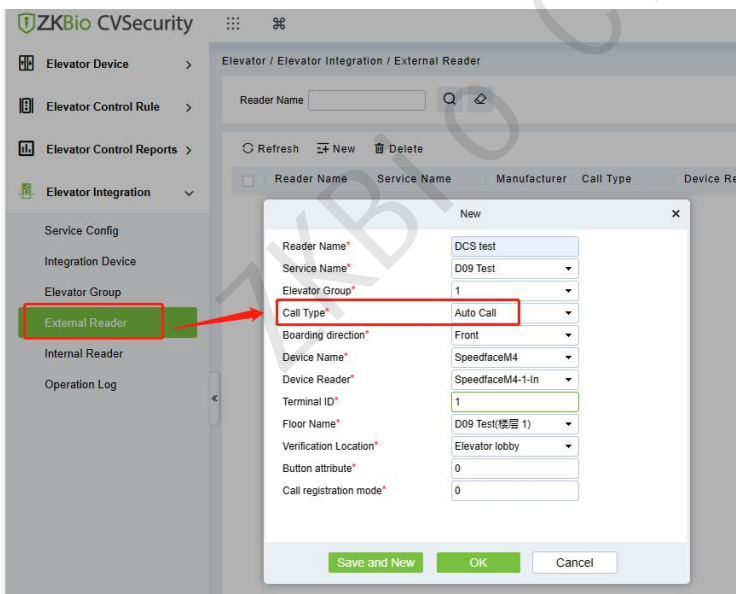
Padding

0000

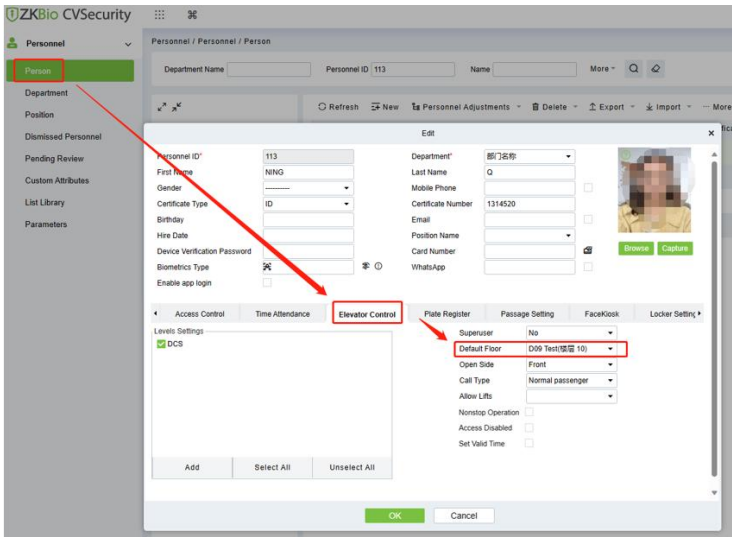
## 6.2 HOP-Auto Call

### Major Preconditions

1. Successfully and properly start the ELSGW Emulator;
2. Successfully added the access control device, and set the access level for relevant personnel;
3. Successfully configured the elevator integration: service configuration, integration device, and elevator group.
4. Make sure to select the call type as **"Auto Call"** when we add the **External Reader**.



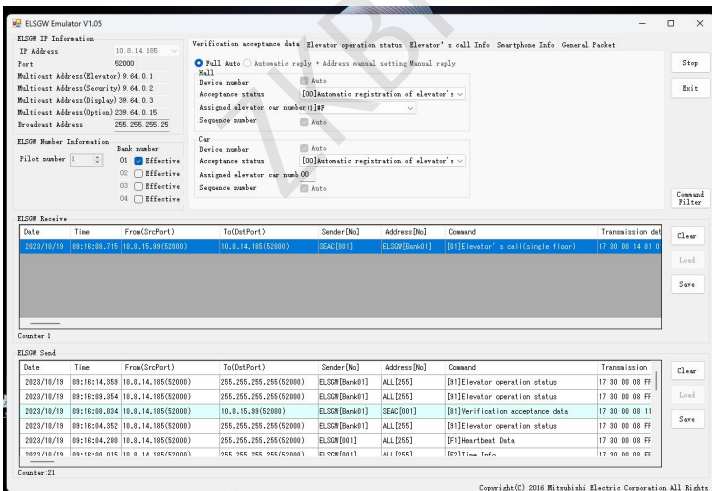
5. Make sure to set the default floor for the personnel when edit the personnel information.



<b>Default Floor</b>	Select the floor that needs to be reached
<b>Open Side</b>	Select the elevator door opening direction based on actual conditions
<b>Call Type</b>	Select different roles based on user permissions
<b>Allow Lifts</b>	Mitsubishi Elevator No need to select
<b>Nonstop Operation</b>	Enabling this option will allow the elevator to directly reach the floor

### Result verification

The Personnel Verifies on the access control terminal, and on the ELSGW Emulator with push the data about the default floor.



Elevator's call(single floor)

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0014	01	01	11	01	00000000

Command number	Data length	Device number	Verification type	Verification location	Hall call button riser attribute	Reserve	Boarding floor
01	12	0001	01	01	00	00	0001

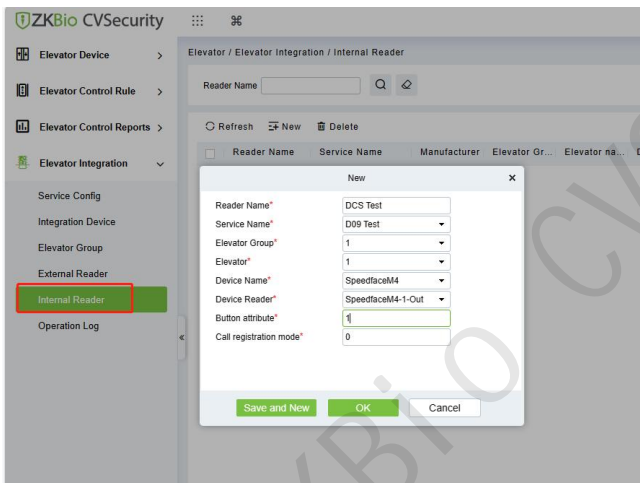
  

Destination floor	Boarding front/floor	Destination Front/floor	Elevator's call attribute	Nonstop	Call registration mode	Sequence number	Reserve	Reserve
000A	01	01	02	01	00	14	00	00

## 6.3 COP-Manual Call

### Major Preconditions

1. Successfully and properly start the ELSGW Emulator;
2. Successfully added the access control device, and set the access level for relevant personnel;
3. Successfully configured the elevator integration: service configuration, integration device, and elevator group.
4. Successfully added the **Internal Reader**;



### Result verification

The Personnel Verifies on the access control terminal, and on the ELSGW Emulator with push the data about authorized floors, we can view the details by double-clicking one of the data in [ELSGW Receive].

ELSGW Emulator V1.05

IF Address: 10.8.14.185  
Port: 8200  
Multicast Address(Elevator): 9.64.0.1  
Multicast Address(Security): 9.64.0.2  
Multicast Address(Option): 39.64.0.9  
Multicast Address(Optional): 239.64.0.15  
Broadcast Address: 255.255.255.255

ELSGW Reader Information  
Pilot number: 01  
Back number: 01 Effective, 02 Effective, 03 Effective, 04 Effective

Verification acceptance data | Elevator operation status | Elevator's call Info | Smartphone Info | General Packet

Full Auto (Automatic reply + Address manual setting Manual reply)

Hall  
Service number: Auto  
Acceptance status: (00)Automatic registration of elevator's  
Assigned elevator car number: 1MF  
Sequence number: Auto

Car  
Service number: Auto  
Acceptance status: (00)Automatic registration of elevator's  
Assigned elevator car number: 00  
Sequence number: Auto

Date	Time	From(SrcPort)	To(DstPort)	Sender[No]	Address[No]	Command	Transaction data
2023/10/19	15:09:16.991	10.8.14.185(8200)	10.8.14.185(8200)	SEAC[001]	ELSGW[Dev#01]	[02]Elevator's call(multiple floors)	[17:30:00:16:01:0]
2023/10/19	15:09:14.971	10.8.14.185(8200)	10.8.14.185(8200)	SEAC[001]	ELSGW[Dev#01]	[02]Elevator's call(multiple floors)	[17:30:00:16:01:0]
2023/10/19	09:10:25.581	10.8.14.185(8200)	10.8.14.185(8200)	SEAC[001]	ELSGW[Dev#01]	[02]Elevator's call(multiple floors)	[17:30:00:16:01:0]

Date	Time	From(SrcPort)	To(DstPort)	Sender[No]	Address[No]	Command	Transaction data
2023/10/19	15:09:21.303	10.8.14.185(8200)	255.255.255.255(8200)	ELSGW[Dev#01]	ALL[1553]	[01]Elevator operation status	[17:30:00:06:FF]
2023/10/19	15:09:21.307	10.8.14.185(8200)	255.255.255.255(8200)	ELSGW[Dev#01]	ALL[1553]	[01]Elevator operation status	[17:30:00:06:FF]
2023/10/19	15:09:17.308	10.8.14.185(8200)	255.255.255.255(8200)	ELSGW[Dev#01]	ALL[1553]	[01]Elevator operation status	[17:30:00:06:FF]
2023/10/19	15:09:17.088	10.8.14.185(8200)	255.255.255.255(8200)	ELSGW[Dev#01]	ALL[1553]	[F1]Heartbeat Data	[17:30:00:06:FF]
2023/10/19	15:09:14.985	10.8.14.185(8200)	10.8.14.185(8200)	ELSGW[Dev#01]	SEAC[001]	[01]Verification acceptance data	[17:30:00:06:11]
2023/10/19	15:09:14.988	10.8.14.185(8200)	10.8.14.185(8200)	ELSGW[Dev#01]	SEAC[001]	[01]Verification acceptance data	[17:30:00:06:11]

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Elevator's call(multiple floors)

Transmission packet header						
Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0018	01	01	11	01	00000000

Close

Transmission packet data							
Command number	Data length	Device number	Verification type	Verification location	Hall call button riser attribute	Reserve	Boarding floor
02	14	0000	02	01	01	00	0000

Reserve	Boarding Front/Rear	Reserve	Elevator's call attribute	Nonstop	Call registration mode	Sequence number	Front destination floor data length	Rear destination floor data length
0000	00	00	02	01	00	17	02	00

Front destination Floor								Rear destination Floor											
ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX	ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX
+00	8	7	6	5	4	3	2	1	FF										
+01	16	15	14	13	12	11	10	9	7F										

Padding  
0000

ZKBiO CVSecurity ty