HCP 2.4 Elevator Control business delivery solution

2023.3

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1 Introduction

1.1 Background

In the residential areas, office buildings, factories and other scenarios, the property management companies and their managers can apply the Elevator Control Solution to secure the building access in a more effective and safer way and prevent nauthorized personnel from accessing into the restricted areas. It is achieved through the HCP, a multifunctional platform, in which many operations like device management, personnel management, access control, remote control, real-time monitoring, and alarm linkage are included.

1.2 Common applications

(1)A card reader is connected to the elevator control unit (DS-K2210), which allows the passengers to select the authorized storey manually or automatically. (The specific floors are automatically selected by swiping card inside the elevator, which is commonly applied in hotels and residential areas.)

(2)A video intercom device is linked with the elevator control unit (DS-K2210), which allows the owner to the access to the authorized storey where the owner is heading by swiping the card after the identity verification at the door station. (The owner returns home.)

(3)The indoor can unlock the gate and authorize the specific storey access permission by clicking when receiving a call from the video intercom. (It is commonly applied for guest visits.)

(4)The indoor can call and appoint the elevator to the storey where the host terminal is located through the host terminal. (It is applied when the host is going out.)





1.3 Components within the solution

Component	Model	Function		
Elevator	Elevator control unit/DS K2210)/ Elevator	Achieve		
Control	control unit(DS K2N40016A)			
Device				
НСР	HikControl Professional	DeviceManagement, person		
псе		management, access control, etc.		
Video				
Intercom	Door station Indoor	Call elevator		
Device				

2 Device Configuration

2.1 Add Eleavator Control Device

(1)Firstly, please enter the 【Device】 and select 【Eleavator Control Device】, then click the "Add" buttom.

🤨 HikCentral Professional 🏦 🚦	Access Control Visitor	Intelligent Analysis Attendance	On-Board Monitoring Person	Account and Security	Device 🗘 Event and Al	arm Video Intercom			& ⊡ Q @ ≡ admin-
	+ Add 🗈 Delete 🔑 Ch	unge Password 💿 Time Zone 👘	Restore Default Settings 🛛 📿 Refresh	M					Search Q
	Device Name 0	Device Address	Serial No. 0	Version :	Available Floors	Available Card Reader	Network Status	Password Strength	Operation
	🗆 K2210	10.9.99.227	K221020220216V010004EN	V1.0.4 build 220216	128	2	Online 🖸	Weak	© 0
	Total: 1 100 /Page ~) 1 /1 Go
	Online Device					8			
	Server Network(0) 🗸 🔅	Add to Device List 💦 🖓 Activate	G Refresh All 📃 Show Added	Device					IP Address/Serial No. Q
	Device Address	Serial No. 1	Device Port 0	ITTP Port	Subnet Mask	Gateway 1 Activated or Not 1	Added or Not 1	Used DHCP or Not	Operation

Enter the IP or the IP segment of the device, and select the associated storey information. This sequence number corresponds to the one in the branch console.

Dev	ice 🖻	🔶 Add Elev	ator Control Device	
	Device and Server ^			
		Basic Info	ormation	
			Adding Mode	IP Address
	Elevator Control Device			O IP Segment
				⊖ samudon
	Visitor Terminal		*Device Address	10.9.99.215
			*Device Port	8000
			*Device Name	Elevator Control
			*User Name	admin
			*Password	······ @
				Weak
		Time Zor	ne	
			Device Time Zone	● Get Device's Time Zone
	Dock Station			O Manually Set Time Zone (The time zone settings will be applied to the d

Each branch console device can support 16 floors, and each main control supports adding 8 branch console devices. As an analogy, it supports up to 128 floors., click Add to save.

	Security Control Device	Time Zone	
	Fire Protection Device	Device Time Zone	Get Device's Time Zone
	Dock Station		Manually Set Time Zone (The time zone settings will be applied to the d
	Digital Signage Terminal	Resource Information	
	Smart Wall	 Add Resource to Area 	
	IP Speaker	*Area	Create Area by Device Name
	Security Inspection Device		Existing Area
	Network Transmission Device	*Range of Floor No.	1 - 16
	Recording Server	Restore Default Settings	
	Streaming Server	Restore Default Settings	
	DeepinMind Server		
13	Area 🔶		① After restoring to default, all the parameters of the device configured on the system will be restored to default settings.
	Firmware Upgrade		Add Add and Continue Cancel

Note: One access control host can only be added to one platform.

(2)Go to 【Device】 >> 【Eleavator】 to configure elevator control data, which includes Basic Information, Floor, Link Camera and Card Reader.



Note: The association between the sequence number and the actual floor data lies in the Floor. And the sequence number corresponds to the branch console relay interface. The Floor Name represents the floor information displayed to the passengers by the platform.

For example, if there are two underground floors in the building, it is recommended to associate the first two digits or the last two digits with the two underground floors, as shown in the figure.

2.2 Video intercom device with the elevator control device

(1)Door station configuration

First enter [Device] >> [Video Intercom], after add the video intercom device, then click

the icon on the right to enter the device configuration page.



Click [More] >> [Configure] to enter the web configuration pageConfigure the association

ev	ice	- 0	Configuration KD8003	
		^		
			Time	
		*	Time Zone	(UTC+08.00) 昭断, 吉陽坡,新加坡, 台北, 北京, 重庆, 曾漫特别行政区, 乌鲁
		•		木兜 伊尔博贾克 乌兰巴托
			Device Time	2023/02/14 15:27:51
				ayoo, misa aan oo i soone
				The DST is not configured. You can enter the remote configuration to set it.
			Maintenance	
			Reboot	Reboot
			Restore Default Settings	Restore
			More	
				For more remote configuration parameters click <u>Configure</u>
				Save Cancel

between the entrance guard and elevator control host, enter the 【Access Control】 > 【Elevator Control Parameters】 page, and add the corresponding elevator control host again.

Note: For example, if there are two underground floors in the building,

When the Negative Floor Capacity parameter is set to 0, and the host terminal is on the 10th floor, then the corresponding Floor NO. and branch console relay number for the host terminal is also 10.

And when Negative Floor Capacity parameter is set to 2, the host terminal is on the 10th floor, then the corresponding Floor NO. of the host unit and the sequence number of the branch console relay is 12.

Therefore, it is recommended to set 0 for Negative Floor Capacity, keep Floor NO. consistent with the floor, and associate the last two digits of Floor NO. with the underground floor number.

Encoding Device		
Access Control Device 🔶	Time Zone (UTC+08:00) 田政 古羅坡、新加坡 台北 北京, 重庆, 香港特别行政区, 乌鲁	×
Elevator Control Device 🔶 👷	本示定全 10.41.8.186:18001/WebCfgPackage/Packages/01/020/inc	lex.asp#/home/conflg/door/elevatorParam?nohead=false&nofoot=true
Video Intercom Device	Device Time 2023/0 User Device Managem	ent Configuration
Visitor Terminal	Local Door Parameters Elevator Control I	Parameters
On-Board Device	The DST System	
Query Terminal	Maintenance Network Elevator No. Elev	No.1 v
Entrance/Exit Control Device	Video/Audio Reboot Rebo DS-K22*	0 ~
Guidance Terminal	E image Interface Type Network	Interface v
Direliu Senian	Restore Default Settings Rest	
19100	More Alarm Receiver Type IP	v
0455	For more Address Control Server IP Address 10.9.99.2	27
Security Control Device	Port 8000	
Fire Protection Device	Sav User Name	
Dock Station	Password	
Digital Signage Terminal		Save
Smart Wall		
IP Speaker		
Security Inspection Device		
Network Transmission Device		
Recording Server		

(2) Indoor device configuration

After adding the indoor device into the platform, go to 【Video Intercom】>>【Device Management】 to configure the association between the host terminal and the video intercom, as well as the floor data of the host terminal unit.

Video Intercom 🚈	 Supports global sorting for the list data. 					
9 Overview	0	0	0			
💼 Apply Data to Indoor Station 🛛 🗸	All Devices	Applying Failed	To be Applied			
Apply Advertisements to Door S	All Devices ~ + Add ~ De	elete 🗄 Apply Settings				
Video Intercom	Device Name	Device Address 🗘	Location ÷	Device Type	Main and Sub Relation	Application Status
Contacts						
Recents						
Device Management						
Video Intercom Application						
Basic Configuration ^						
Call Recipient						

Add video intercom data:

🧿 HikCentral Professional 🛛 🏦	•• · ·	Access Control	Visitor	Intelligent	Analysis	Attendance	On-Board Monitoring	Person	Account and Security	Device	Event and Alarm	Video Intercom 🧳	
Video Intercom	⊑ ∈	Add Video	o Intercor	n Device									
Overview													
Apply Data to Indoor Station	~	Basic Inform	nation										
Apply Advertisements to Door S			C	Device Type	Door Stat	ion			~				
Judeo Intercom	~		Devic	e Sub-Type	 Door S Door S 	tation tation (V Serie)							
Device Management					Outer I	ell Door Station							
Video Intercom Application	~		* Sa	lact Davica									
Basic Configuration	~			ect Device	E 1	099676							
					E K	D8003							
		Location											
			0 *0	Community	1								
			*B	uilding No.	1								
				1 Unit	1								
				I	Add	Cance	21						

Add indoor terminal data:

Video Intercom 📃	Add Video Intercom Device
Overview	
Apply Data to Indoor Station	Basic Information
Apply Advertisements to Door S	Device Type Indoor Station V
A Video Intercom	*Select Device Search
Contacts	
Recents	
Bevice Management	
Video Intercom Application	
Basic Configuration	
Call Recipient	
Call Schedule Template	Location
Receiving Schedule Template	Community 1
General	*Building No. 1
	🕥 Unit 🛛 1
	*Brown 0818
	Add Cancel

Note:

(1)The association of video intercom device of the platform is the set location information: Community/Building/Unit/Room. The management unit corresponds to a specific community, the door machine corresponds to a specific building and unit number, and the indoor machine corresponds to a specific room number.

For example, the location of the indoor unit is 1-1-1-0818, and its associated doorphone is 1-1-1, and the associated management machine is 1.

(2)The first two digits of the "Room" field of the indoor device are sent to the device as floor data, and the last three digits are sent as room number, for example: Room: 818, where 08 is the floor number and 818 is the room number. This floor information is applied for indoor unit elevator calling and doorphone calling indoor unit scenarios.

< Room Info	rmation
Room Name	Embedded Net VIS
Floor No.	8
Room No.	818
Advanced Settings	>

Apply the settings to devices.

All Devices	O Applying Failed	0 To be Applied				Please enter.
Device Name 0	Device Address	Location ‡	Device Type	Main and Sub Relation	Application Status	Application Time ‡
С КН6320	10.9.99.194	1-1-1-818	Indoor Station	Main	Applied	2023/02/14 20:10:41
КО8003	10.9.99.101	1-1-1	Door Station	Main	S Applied	2023/02/14 20:10:41

2.3 Associated permissions:

Go to **[** Access Control **]** > **[** Access Level **]** > **[** Manage Access Level **]** and click Add to add permission. Set the authorities according to the actual case. For example, set the permissions for the elevator control on the 5th floor as shown in the figure, and click Add to save.

🞯 HikCentral Professional 🏦 🔠 🗛	cess Control 🧿 Visitor Int	telligent Analysis	Attendance On-Board Monitoring	Person Account and Secu	rity Device	Event and Alar	rm Video Intercom	Passing Vehicle Monitoring		
Access Control 🔤 🕂 Ad	d 📔 Delete 🗸									
🥶 Access Control Overview	Access Level Name				Acc	ess Schedule				Access Point
Access Level										
Manage Access Level										
Assign by Access Level										
Assign by Person										
Assign by Department										
Assign by Access Group										
Real-Time Monitoring										
Q Search 🗸 🗸										
Access Control Application										
Liti Troubleshooting										
Basic Configuration										
^										
🕒 HikCentral Professional 🏦 🏭	Access Control 43	Visitor Intelli	gent Analysis Attendance	On-Board Monitoring P	erson Acco	unt and Secu	rity Device Ev	ent and Alarm Video In	tercom Passing \	/ehicle Monitoring
Access Control 😇	\bigcirc									
Access Control Overview										
Access Level ^	*Acc	ess Level Name	1-1-1							
Manage Access Level		Description	1-1-1-5F Access							
Assign by Access Level										
Arrian by Darron		*Access Point	All Resources		~					
Assign by Person										
Assign by Department			Available			Se	elected			
Assign by Access Group							Search			
Real-Time Monitoring			Eloor 03				Name	Area		
Q Search 🗸			S Floor 06			>	Door 01	10.9.96.76		
			🗆 🏶 Floor 07				Floor 05	K2210		
			Floor 09							
4 Troubleshooting			 ■ Floor 10 ■ Floor 100 							
Basic Configuration			Floor 101							
	•,	Access Schedule	All-Day Template	~	View					
			Add Cancel							

Access authorities can be granted to corresponding personnel by the following 4 types of applications: Access Level, Person, Department, and Access group. Individual card numbers are allocated to the specific people.

C HikCentral Professional	^ ∷	Access Control 🗘 Visitor Intel	ligent Analysis Attendance	On-Board Monitoring Person	Account and Security Device	Event and Alarm Video	litercon	Person/Department/ID						L Q Ø	Ξ
Access Control	≣							Include Sub Department			Search	1-1-1			
Access Control Overview		Access Level Name		Access Schedule		Ac	cess Poin	~ Al Departments		Person In	fermation	Assign To 🕒 U	nassign 👻	Search	
Access Level	^	144		All-Day Template	3	×	Access	HQTest			Paul Hu	Basic Inform	ation		
Manage Access Level								HR Team 1	~		■ 4310590525 ∆ All Department				
Assign by Access Level								Team 2							
Assign by Person															
Assign by Department															
Assign by Access Group															
Real Time Monitoring															
C Search	~							1 Person(s) Selected	50	lect All Fer	sons 🛈 🛛 Add				
Access Control Application	~														
n Troublestooting															
E Basic Configuration	~														

2.4 Troubleshooting:

Check if the level has been successfully apply. Go to (Access Control) > (Troubleshooting) to check whether the personnel's authority has been successfully granted according to personnel or Accesslevel. If not, click Apply button to apply the authority it again.

	Credential Status		caran 4 2 Ferrare	with Ray Countered	an a	Device Status	•	^{To be system} 0	O Total United When Applying		
	0 0	1	7	aport.						Check Person Authoriza	fon
	No Card Configured			Reals Inform	nation 1				Person/Vialtor 1	Access Powers Authorized	
	No Face Configured No Fingerprint Configured Inses to be Collected	3		?	m 19402162 II Normal P Ø Not Expin	s4 anon at	2	All Departments > HR	Parson	Check Oredential Setting Check Device Mature Check Device Mature	
	Temporary Card	0			HES 0	10.0	0	@ 1			
	Report Card Loss	ů.		?	Department III S1366609 III Not Expire IIII 0	t manager os man el ® c		All Departments	Peson		
ntang peratian				?	Team 2 heat IN 51245135 35 Normal Pr © Not Experi IN 0	der De mann nd		All Departments = Team 2	Person	Check Access Point	
				?	Team 1 lead m 5000425 30 Normal Pr © Not Explor mill 0	ter co consen nd consen		All Departments > Team 1	Panan	Charles Room	Salact Access Point

(1)Query personnel authority.

Access Control Overview								
Access Level	↑ O Applying Failed	Applied	To be Apple	ed				
Access Control 🗠	Check Access Poi	nt						
	0 Applying Failed	Applied 2						
	Area Name	🗄 Apply 🕑 Include Sul	5-Acea			Search Q	Person (1) Visitor (0)	
	 HikCentral Professional 	Name 0	Device 1 N	twork Status	Door Status (Contact/Lock)	Arming Status	David Max 🕞	
	10.40.228.110	Floor 05	K2210	Online	- / Unlocked	Arming-System IP Address: 10.41.8.186	2 4318598525	
	10.9.96.76							
	10.9.99.44						E 3722995817	Applied
	10.9.99.45							
	12							
	2機能市							
	AR1							
	ar3							
La incubieshocong	ar-damon							
	0.00145							
	heap							
	12210							
	10000							
	471							
	radar							
	-							

(2)Query person with Access point

3 Elevator Alarm Configuration

Go to [Event and Alarm] >> [Normal Event and Alarm] , click Add button to add alarm information.

🔞 HikCentral Professional 🏦	Video Access Control Parking Lot Visitor Intelligen	Analysis Attendance On-Board Monitori	ng Event and Alarm O Person Account and	Security Device Maintenanc	•			
Event and Alarm	Supports global sorting for the list data.							
Q search	Total	Custom Event						
Overview	1 0 0 Configured Disabled Exception	1 0 0 Configured Disabiled Exception						
Event and Alam Configuration	+ Add 🗐 Delete 🐻 Delete All Invalid Items 🔅 Trigge	Alarm 🕗 Enabled 🗸 🕞 Disable 🗸	Test Alarm	10.00				
Normal Event and Alarm	Event Name :	Source	Trippering Event	Trigger Alarm : Y	Alarm Priority 🍸	Status 🝸	Device Alarm Status	Actions
Combined Alarm	Camera 01 - AJCP - whetherwearheimet_heimetcol	Camera 01	whetherwearhelmet_helmetcolor_headshoulder	Yes	High	Enabled	Enabled	12
Basic Configuration								
🗒 Custom Event	1							

(1)As the alarm source:

Select event rules and resource points.

vent and Alarm 🗧	💮 Add Event and Alarm			
	Basic Information Actions Re	ceiving Schedule Alarm Settings		
	Basic Information			
20 Event and Alarm Configuration ^	*Triggered By	Triggering Event		Source
Normal Event and Alarm		Triggering Event		Search Q
		Face Picture	 Abnormal Card Swiping 	> 🗆 📲 10.9.96.15
		Person/Vehicle Arming Group	Access denied by invalid MIFARE card.	> 🗌 💼 10.9.96.34
		 Access Control 	Access Denied (NFC Card Reading Disabled	> 🗌 💼 123
		Door	Access Denied by Card and PIN	> 🗌 📾 2210
		Elevator	Access Denied by Card, Fingerprint, and PIP	> 🗆 🗐 AlOP
		Alarm Input	Access Denied by Fingerprint	Elevator Control
		Person	Access Denied by Fingerprint and PIN	🖂 🚰 Elevator Control
		Patrol	Access Denied: Scheduled Sleep Mode	> 🗌 🗐 H7 7A46
		> Vehicle	 Access Timed Out by Card and PIN 	> 🗌 📶 indoor
		> Alarm	Access Timed Out by Card, Fingerprint, and	
		> Intelligent Analysis	Access Timed Out by Fingerprint and PIN	
		Digital Signage	Anti-Passback Server Respond Failed	
	*Name	(\$Source) - (\$Area) - (\$Triggering Event)		
		Click to add information for the name.		
		\$Source \$	Area	
		\$Triggering Event		
	Description	Enter the instructions to handle the event/alarm or ren event/alarm.	narks for the	
	*Color	eFF0000 Add Template		
	 Ignore Repetitive Events/Alarms 			

(2)As linkage device:

Actions			Add Linka	ge Action		
	Link Access Point	-				
	Access Point					
	O All Access Points					
	• Specified Access Po	int				
	+ Add 💼 Delete	All				
	+ Add	All	Area Name	Action	Operation	
	+ Add 🖹 Delete	All Type Floor	Area Name Elevator Control	Action Access Forbidden	Operation	
	+ Add Delete Name -1 -2	All Type Floor Floor	Area Name Elevator Control Elevator Control	Action Access Forbidden ~ Access Forbidden ~	Operation	

4 Function

4.1 Real-time monitoring

From WEB page:

Go to 【Access Control】 >> 【Real-time Monitoring】 and click on the ladder control point to control the floor. And you can view Real-Time Event.

Access Control	调造环		• Search		۹		Operation completed.	-5	(), View Small	I Picture	🗗 Unlock)	Temporary	Access E	Lock / Access V	With Credential	Remain Unlocked / Free Access	Remain Locked /
Access Control Overview					a		1										
🛛 Access Level 🗸 🗸		∟≱		2	2	?	J	 +									
Real-Time Monitoring		Door 01		Do	or1	Door2		K2210									
Q, Search ~									Floor 01		Floor 02		Floor 03				
Access Centrel Application								Г	Floor 04	00	Floor 05		Floor 06				
Troubleshooting								L	Floor 07		Floor 08		Floor 09				
□ Rasic Configuration ✓									Floor 10		Floor 11		Floor 12				
									Floor 13		Floor 14		Floor 15				
									Floor 16		Floor 17		Floor 18				
									Floor 19		Floor 20		Floor 21				
									Floor 22		Floor 23		Floor 24				
									Floor 25		Floor 26		Floor 27				
									Floor 28		Floor 29		Floor 30				
									Hoor 31	-	Floor 32	-	Floor 33				
									FIDOT 34	5	P100F 35		Pibor 36				
	Total: 4																> 1
	Real-Time Event										89 mg	61.0	🖌 Auto-	Switch to the Late	est Record		
	Profile Picture	Last Name	First Name	ID Department	Skin-Surface Temperature	Event Type	Card Reader Authentication Mode	Card No	Event So	urce	Time Op	eration					
	1. State 1.					Button Relay Connected			K2210		2023- 02-17 GE 11:0						
	-				-	Remaining Unlocked Status Started	-	-	K2210		2023- 02-17 Gg 11:0					No data.	
	-				-	Remote: Remained Unlocked (Free Access)		-	K2210		2023- 02-17 Gg 1110						
						Button Relay Connected			K2210		2023- 02-17 G						

From Control Client:

Enter the [Monitoring] page and click the elevator resource, you can also control the floor, associate the camera live view and playback, and view the real-time events.



4.2 Release floor authority after card reader swiping

A card reader is connected to the elevator control unit (DS-K2210), which allows the passengers to select the authorized storey manually or automatically.



4.3 Indoor elevator call

Click the call elevator button on the indoor unit page, and the elevator will automatically arrive at the floor.



4.4 Door station calls Indoor

Use the door station to call the indoor unit. The indoor unit unlocks and releases the authority of the floor