Fast operation of IP Apartment System 2017.8

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1. System Structure

This document listed the involved firmware and software, and explained the configuration of IP apartment solution, including the VTO, VTH, IP Camera and IP switch.

1.1 Topology



Note: VTH1550CH can be powered by VTNS1060A. Moreover, it can be powered individually with 12V/1A if you use other IP switch.

1.2 Demo environment



1.3 Firmware and software

	General_VTOXXX_Eng_P_16M_V3.120.0000.0.R.20170803	
	Device1 IP: 192.168.1.110	
VTO1220BW	Building No: 01	VT cybersecurity baseline
	Unit No: 1	
	VTO NO: 6901	
	General_VTH151X_Eng_P_V4.000.0000.0.R.20170803	VT cybersecurity baseline
VTH1550CH	Device IP: 192.168.1.106	VA 0 indicates NEW/11
	Room NO: 101	
	General_VTH151X_Eng_P_V4.000.0000.0.R.20170803	
VTO1550CH	Device IP: 192.168.1.108	VT cybersecurity baseline
	Room No: 101-1	
	Software Version: 2.420.0000.14.R, build : 2016-04-18	
IFC-IID W12203N	IP: 192.168.1.107	
IE 11	Explorer11 Version :11.0.9600.18762	
Chrome	Soogle Chrome Version: 60.0.3122.113(64 bit)	
Windows 7	Windows 7 Enterprise edition	

2. How to configure: 1 VTO + m VTH

Note: When you want to connect the devices, please make sure the IP address of VTO and VTH are in the same network segment.

If there are more than 2 VTHs, you can set group call function of VDP. Maximum support for 5 VTH.

1.1 How to setup the VTO

Step 1 Login VTO1220BW web interface <u>http://192.168.1.110</u>, system Config -> Local Config, set 'Device Type' as 'Unit Door Station'.

← → Ø http://192.168.1.1	110/		e د ک	3 SERVICE ×	
IP VDP Doo	or Station web so	erver V1.0			
🚽 System Config	Local Config A	&C Manager	Sound Control	Talk Manager	
Local Config	System Type	TCP/IP	✓		
> Indoor Manager	Sensor	60			
Network Config	Storage point	FTP	~		
Video Set	Unit Layer Amount	30			
> User Manager> IP Purview	Room Amount in One Layer	8	Create	Room	
> IPC Information	Device Type	Unit Door Station	n		
> VTO Info	Reboot Date	Tuesday	~		
IP Allocate Auto	Version Info	2017-08-03 V	3.120.0000		
> Publish Information	DialRule	Noserial	Warning:P	lease reboot VTH and Broy	vserl
VPnP Config	Diairtuie	Hosenal	• Warning.r		1361
▶ Info Search		Default	Refresh OK		

Step 2 Check LAN Config, make sure to tick the 'Group Call', and click OK to save.

Note: if you have the MGT center, you can configure the MGT information (for more details, see chapter 5); if not, keep default.

← → Ø http://192.168.1.1	10/	の - C Ø WEB SERVICE ×
IP VDP Doo	or Station Web Se	rver V1.0
- System Config	LAN Config	
Local Config LAN Config	Building No.	01
Indoor Manager	Building Unit No.	1
Network Config	VTO No.	6901
Video SetUser Manager	Max Extension Index	5 Group Call
IP PurviewIPC Information	MGT Centre IP Address	192.168.1.100 Register to the MGT Centre
> VTO Info	MGT Port No.	12801
IP Allocate AutoPublish Information	NoAnswer Transfer MGT Centre	O Enable
 UPnP Config Info Search 		Warning:The device needs reboot after modifing the config above.
▶ Status Statistics		IT extensionCount changed,need reboot VIH and Init VIH information again!
► Logout		Default Refresh OK

Step 3 System Config -> Inoor Manager, click on 'Add'. You need to input room number of VTH in the 'VTH Short NO', such as 101.

(🔿 🏉 http://192.168.1	.110/	ע 🚫 ג ד ל	EB SERVICE	×		
	IP VDP Do	or Station web	Server V1.0				
	System Config	Digital Indoor Station M	anager		_		
>	LAN Config	FamilyName	Add	_	_		×
>	Indoor Manager	1000		FamilyName			, c
>	 Network Config 			FirstName			- 692
>		Add Export Co		Thousand			
>	 User Manager 			Nick Name			28
>	IP Purview			VTH Short No.	101	× *	
>	IPC Information			IP Address		VTH Short nu	mber is required
>	VTO Info						S.
>	IP Allocate Auto				OK	Cancel	32
50° ,	 Publish Information 						
ି > 	UPnP Config						

Step 4 Reboot the device.

← → Ø http://192.168.1.	110/		♀ ♂ 🥙 web service			
IP VDP Door Station Web Server V1.0						
System Config	Reboot Device	1				
Status Statistics	Reboot Device					
 Reboot Device Logout 						

1.2 How to setup the master VTH

Note: maximum support 5 VTH (1 main VTH and 4 extension VTH). The master VTH's room number is set as 101, and extension VTH's room number should set as 101-1,101-2,101-3,101-4.

Step 1 long press the 'setting' icon (for about 6 seconds) -> password verification (default password is 888888). Then enter to project setting.

● 101					8. .
Call	F	assword	Verificatio		7:36
	Password	Defaul	3-31 Thur.		
Monitor	1	2	3	-	⊗ `
	4	5	6	0	
	7	8	9	+	

Step 2 Check 'Network', setup the IP of VTH. Check 'VTH Config', set Room number of VTH, it should be the same with the VTH Short number in VTO web setting.



Step 3 Add VTO1220BW in 'VTO Config', setup the IP address, username and password of VTO, and enable it. The username and password are the VTO web interface login 'Username' and 'Password'.

● 101		VTO Config
Network	Main_VTO	Main VTO
VTH Config	VTO IP	192 . 168 . 1 . 110
NTO Contin	Device Type	Doortanteense
VICConfig	Middle No.	
Search Device	User Name	admin
Default	Password	
Popet MSG	Enable Status	

1.3 How to setup the extension VTH

Step 1 Setup extension VTH's room number in 'VTH Config', press 'Master' and switch to 'Extension'. Set the room number as 101-1, and input the master VTH's IP, master name: admin, master pwd: 888888.

• 101-1		VTH Config	9	A	
Network	Dans No.	101.4			
VTH Config	Montor IP	Room No. 101-1			
VTO Config	Master Name	192 . 168 . 1 . 106	Master VTH	's IP	
Search Device	Master Pwd				
Default	Version	V4 000 0000 0 R 20170803			
Reset MSG	SSH	OFF			
		ОК			

Step 2 After setting up, the VTO information of master VTH has been synchronized to extension VTH, and then enable it.

♥ 101-1		VTO Config		A
Network	Main_VTO			
VTH Config				
	Device Type			
VIO Config	Middle No.	HOT 6991		
Search Device	User Name	admin		
Default	Password			
Poset MSG	Enable Status			
Reset Mod				
		Is extension now, same with master!	>	

1.4 Check result

After the above operation steps, if the top right corner of VTH shows an icon with 'X'

🕵 🗐 🏚 , means configuration failed. If shows 🗐 💭 , it means successfully.

Input the room number '101' on the touch pad of VTO1220BW and press the call button.





Master VTH calls extension VTH

Call -> Call User, input '-1', and press the call button.





Extension VTH calls master VTH

Call -> Call User, input room number '101', and press the call button.



3. How to add IPC

There are two different ways to add IPC: add IPC at VTO web interface (24ch) or add IPC at VTH (8ch). If you add IPC at VTO web interface, all the VTHs added on the VTO can monitor the IPC. If you add IPC at one VTH, only this VTH can monitor the IPC.

3.1 How to add public IPC

Step 1 Login IPC web interface http://192.168.1.107, Setup -> Camera -> Video.
 Note: For cybersecurity baseline, VTH monitor support both main stream and sub stream of IPC (Resolution below 720P, H.265 is not supported). Sub stream is recommended. Don't select watermark settings.

(=) @ http://192.168.1.1	107/	ନ - ୯ 🦉 web ser\	VICE	Setup	×				
IP Camera						Live	•	Setup	Υ
⊤ Camera	Video	Snapshot	Overlay	R	OI	Pat	h		
> Conditions	Main Stream				Sub Strea	n			
Notwork			Enable s	sub stream	Enable				
Event	Code-Stream Type	General	~		Code-Str	eam Type	General		~
Storage	Encode Mode	H.264B	~		Encode I	/lode	H.264B		~
> System	Resolution	1.3M (1280*960)	~		Resolutio	n	D1 (704*4	80)	\checkmark
Information	Frame rate(FPS)	14	~		Frame ra	te(FPS)	12		~
	Bit Rate Type	CBR	~		Bit Rate	Гуре	CBR		~
	Reference Bit Rate	384-6144Kb/S			Referenc	e Bit Rate	80-1792Kb/	S	
	Bit Rate	384	~		Bit Rate		160		~
	I Frame Interval	28	(14~150)		I Frame I	nterval	24		(
	Watermark Settings	Don't chose w	atermark se	ttings					
		Default	Refresh	Save					

- Step 2 Login in VTO web interface <u>http://192.168.1.110</u>, System Config -> IPC Information, click 'Modify' icon to add IPC.
- Step 3 Setup IPC name, IP, Username and Password.
- Step 4 Select the protocol: Local for Dahua IPC and Onvif for Onvif IPC. Other information keep default.

← → @ http://192.168.1.1	10/	ר ל 🦉 WEB	SERVICE	×			
IP VDP Doo	r Station wet	o Server V1.0					
	IPC Information	Modify				×	
 LAN Config 	IPC Name		IPC Name	Public IPC			Stream
Indoor Manager		\$-	IP Address	192.168.1.107			xtra Format
> Network Config			Username	admin			xtra Format
Video Set			Password	•••••] IF	PC web interface	xtra Format
 > User Manager > IP Purview 			Port No.	554	u	sername and pass	ixtra Format
> IPC Information			Protocol	Local	ſ		xtra Format
> VTO Info			Stream	Onvif Extra Format		ocal for Dahua IPC	xtra Format
> IP Allocate Auto			Channel	[]		Dovif for Onvif IPC	xtra Format
> Publish Information							xtra Format
> UPnP Config				OK	Cancel		xtra Format
▶ Info Search							xtra Format
▶ Status Statistics		0.0.0.0		admin	554	Local	Extra Format
▶ Logout		0.0.0.0		admin	554	Local	Extra Format
		0.0.0.0		admin	554	Local	Extra Format

3.2 How to add privacy IPC

You can add IPC directly, and you can add IPC on one certain channel of NVR/ DVR/HCVR as well.

Step 1 Press 'Monitor' icon, select 'IPC'.

9 101		IPC			
🔒 Door					
Sw IPC	O				
🛧 Favorite	public I				
		Press 'edit' to d	elete IPC (Only privacy IPC		
	+ Add	× Edit	1/1	<	>

Step 2 Press '+Add' to add new privacy IPC. If the network bandwidth is limited, you had better choose 'Extra'.

Q 101		AddIPC 32	
Door	IPC32 Name	IPC	
S IPC	IP	192 168 1 107 IPC IP	Address
+ Favor	User Name	admin	
	Password	******	
Maka cura	Port	554 IPC	
Extra if netv	vork limited	Extra	
	Protocol	Local HCVR	
	Channel	1 IPC	
	Cancel	OK	>

Add IPC which is connected on NVR:

O 101		IPC	
		AddNVR_33	
Door	NVR33 Name		
Sw IPC	IP	192 168 1 108 NVR IP Address	
	User Name	admin NVR IP Address	
Tavor	Password	******	
	Port	554 IPC	
	Stream	Extra	
	Protocol	Local The HCVR	
	Channel	3 NVR	
	A. A.	IPC channel on NVR	
	Cance	ОК	

3.3 Check result

Press 'Monitor' icon, select 'IPC', then you can see all added IPC including public IPC and privacy IPC.



You can monitor the public IPC at master and extension VTH.



You can monitor the privacy IPC only at the VTH who added it.



4. How to issue card

There are two ways to issue card: issue card on VTO web interface and issue card locally.

4.1 How to issue card on VTO web interface

Step 1 Check system config -> Local Config -> A&C Manager, click on 'Issue Card'.

Confirm				
Auto Snapshot	🔘 Enable	O Disable		
Upload Unlock Record	Enable	🔘 Disable		
	Issue Card			
	Default	Refresh	ОК	

Step 2: Brush your card on VTO1220BW card reading area.



→ System Config	Local Config A8	C Manager	Sound Control	Talk Manager	System Time
> Local Config					
> LAN Config	Unlock Responding Interval	15			
> Indoor Manager	Unlock Period	2			
> Network Config	Door Sensor Check Time	120	Chec	k Door Sensor Signal Before	Lock
> Video Set	Issue Card Password				
> User Manager	issue oard i assword				
> IP Purview	Card Info				
IPC Information	30	Username			
> VTO Info	F 20	Room No		*	
> IP Allocate Auto					
> Publish Information	10 million (1997)	0	K Cancel		
> UPnP Config	Contirm				
▶ Info Search					
▶ Status Statistics	New Menace Password				
⊳ Logout	New Menace Password				
- ⁶ 0	Confirm				
. Q.	Auto Snapshot	O Enable	 Disable 		
	Upload Unlock Record	⊖ Enable	 Disable 		
- 19 ⁻¹		Get Card Numbers:	0		
ġ.		Confirm Issue	Cancel Issue(27)		
		Default	Refresh OI	ĸ	

Step 3: There will be a pop-up at the top of VTO web interface. Fill in the "Username "and "Room number".

Step 4: Click on Confirm Issue.

ι	Jpload Unlock Record	Enable	O Disable		
		Get Card Number	s:1 Current Card	d No	.:2B5BE565
		Confirm Issue	Cancel Issue(28)]
		Default	Refresh		ОК

4.2 Locally issue card

Step 1 Press '*' on the VTO touch pad, and input project password(default psw is 888888), then press '#' to enter the main menu.



Step 2 Press 2 and 8 to move the cursor, select 'Issue Card'. There are two types of verification ways to issue card: 'Parent Card' and 'Password'.



Parent Card verification:

(1) Firstly, you need to issue a card on VTO web interface as the above steps and set it as parent card. VTO web interface, check Indoor Manager, click 'Card NO Info', set the card as 'Main Card'.

						_					
← €) 🥔 http://192.168.1.	.110/	,Q = (WEB SERVICE	×	0	8			<u>নি</u> র্ব	3 8
I	P VDP Doo	or Stat	ion _w								
⇒ Sy >	rs tem Config Local Config	Digital Ir	ndoor Statior	Manager	ء م	90. 20.					
	LAN Config	Fam	iilyName	FirstName	Nick Name	Room No.	IP Address	Card No. Info	Modify	Delete	
	Indoor Manager					101	192.168.1.10	6	1	•	
	Network Config					101-1	192.168.1.10	8	1	•	
		Ad	d Export	Config Import Co	onfig Issue Card				₩ ◀ 1/1 ►	📕 Go to 🗾 📦	
	User Manager										
			Card Info	0		_	_			ે	
			Card Into	Card Number	Lleername	Main Card	Departi ess	Andifu Delete			
			101	2B5BE565	Osemame		ReportLoss N				
				22002000							

(2) Select 'Parent Card', then Brush the parent card.



(3) Send room number.



(4) Brush the son card (the new mifare card).



(5) Issue card successfully.

Password verification:

(1) Firstly, you need to set the issue card password on VTO web interface. Check System Config -> Local Config -> A&C Manager, input issue card password and click 'OK' to save.

← → ▲ http://192.168.1.3	110/ D - C	WEB SERVICE	×			
IP VDP Doc	or Station web se	erver V1.0				
🚽 System Config	Local Config A	&C Manager	Sound Control	Talk Manager	System Time	Confi
 Local Config LAN Config 	Unlock Responding Interval	15				
> Indoor Manager	Unlock Period	2				
 Network Config Video Set 	Door Sensor Check Time	120	Check	Door Sensor Signal Before	Lock	
 User Manager IP Purview 	Project Password	123430	-			
 IPC Information 	Lift Control Protocol	Local Protocol	✓ 🗌 Lift Cor	ntrol Enable		
> VTO Info> IP Allocate Auto	Password Unlock Type	Uniform Passw	ord 🗸			
> Publish Information	New Unlock Password					
VPnP Config	Confirm	· · · · · · · · · · · · · · · · · · ·				

(2) Select 'Password', and input the issue card password.



(3) Send room number.



(4) Brush the son card (the new mifare card).



(5) Issue card successfully.

4.3 Check result

Swipe your card in the card area to open the door.



5. How to configure: SmartPSS

5.1 How to register to the platform

- Step 1 VTO web interface- > System Config >LAN Config, input MGT center IP Address, and check 'Register to the MGT'.
- Step 2 If you enable 'No answer transfer to MGT', the call will transfer to MGT when nobody answered.
- Note: 'No Answer Transfer' and 'Leaving Message' functions have only one enable at one time. If you want to enable 'No Answer Transfer' function, you must set 'VTO Message Time' as 0 second (setting -> General -> Other).
- Step 3 Click 'OK' to save and reboot the device.

← → @ http://192.168.1.1	
IP VDP Doo	r Station Web Server V1.0
🚽 System Config	LAN Config
 Local Config LAN Config 	Building No. 01
 Indoor Manager Network Config 	Building Unit No. 1
 Video Set User Manager 	Max Extension Index 5 Group Call
 IP Purview IPC Information 	MGT Centre IP Address 192.168.1.100 Register to the MGT Centre
 VTO Info IP Allocate Auto 	MGT Port No. 12801
 Publish Information 	Centre
> UPnP Config	Warning:The device needs reboot after modifing the config above.
Status Statistics	Default Refresh OK

Step 4 Add device on SmartPSS. Click 'Auto Search' to search the devices, and select the VTO and VTH to add.

SMART	PSS	5		Intercom [Devices +		1	☆ ~~ − = 13:
Q Auto Sear	h + i	٩dd	ť	🕽 Delete 🛛 🕹 Impo	ort ∲ Backup		All Devices: 0	Online Devices: 0
All Device								
	Ne				Auto Sear	ch		Operation
	INd				5 Search	Operation		
		Ģ	Refresh	IP Modify IP		Search De	vice Number: 33	
					▲ Device Type	Мас	Port	
			24	10.15.112.32	IPC-HF5221E	4c:11:bf:9b:a3:02	37777	
			25	10.15.112.128	DH-SD-65F230F-HNI-S	4c:11:bf:65:d7:46	37777	
			26	10.15.114.161	IPC-HDBW7221F-MPC	3c:ef:8c:c5:55:6d	8005	
			27	10.15.114.240	NVR	4c:11:bf:76:38:04	37777	
			28	192.108.1.109	IPC-HDBW8281	90:02:a9:42:38:fc	40003	
		•	29	192.168.1.110	Dahua 24 ports PoE swi	. 3c:ef:8c:1c:62:1e	37777	
		•	30	192.168.1.111	PC-NVR-V3.0	E4:B3:18:DC:71:93	37777	
			31	192.168.1.116	PC-NVR-V3.0	AC:FD:CE:2E:B0:E4	37777	
		-		102 168 1 110	A&A0010A	3crof Scriff 1hrbh	77777 Ū	
						Add	Cancel	

Note: In cybersecurity baseline, you must input the correct account and password. For VTH, account is 'admin', password is projecting password (default 888888).

S	MAF	RT F	PSS		Intercom	Devices	+					• • •	\$	(h	-	□ × 13:42:09
Q #	uto S	earch	+ Add		🗊 Delete	الله الم	ŷ Backup					All Devices: 3	On	line Dev	ices:	
1	All Dev	ice	Encode	Devi	ce VTO											
			Name		P/Domain Name	Device Type	Device Model	Port	annel Numl)nli	ine Statu			Ope	ration	
		192	2.168.1.10	6	192.168.1.106	DVR	VTH1510CH	37777	1/0/8/1	•	Online	1B00F17PAN00046	Ø	₫.	⇒ @	
		192	2.168.1.10	8	192.168.1.108	DVR	VTH1510CH	37777	1/0/8/1	•	Online	1B00F17PAN00074	Ø	¢۲.	⇒ @	
	3	19	2.168.1.11	0	192.168.1.110	VTO	VTO1220B	37777	0/0/0/0	•	Online	PFZ3FZ01300006	Ø	ğ.	⇒ 1⊡	T

Step 6 Modify VTS Address to the MGT center IP address.

SM	ART PSS		Intercom		Devices	+			
.		Admin	P	•					
!		Online	8000000						
R									
X									
<u>1</u> 2						Set VTS Ad	dress		
					VTS Address	192.168.1.100			
							ОК	Cancel	

- 5.2 Check result
 - > MGT center Calls VTH:



> VTH Calls MGT center:



6. How to add address book in VTH

Step 1 Press 'Call' button, check 'Contact' -> Add, input the contact information.

• 101-1		Contact	n
८	Call Log		
23	Contact		
	Call User		
		+ Add × Edit	



Step 2 Call the contact. Press the item of your contact, click the S button to send the call.

Q 101-1	C		
Call Log	101	lucy D	
Contact			
Call User			
	25	S lucy D	
		Calling	