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	V4.0 indicates NEW UI	
	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		
IPC-HDW1220SN	Software Version: 2.420.0000.14.R, build : 2016-04-18		
IF C-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 se	erver V1.0			
🚽 System Config	Local Config A	&C Manager	Sound Control	Talk Manager	
 Local Config LAN 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 Statio Fence Station	n		
> VTO Info	Reboot Date		~		
> IP Allocate Auto	Version Info	2017-08-03 V	3.120.0000		
> Publish Information	DialRule	Noserial	V Warning:P	lease reboot VTH and Brow	wser!
> UPnP Config					
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	110/	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 Purview IPC 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		If extensionCount changed,need reboot VTH and init VTH 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			
>	 Network Config 			FirstName			680
>		Add Export Co					301
>	 User Manager 			Nick Name			28
>	IP Purview			VTH Short No.	101	× *	600
>	IPC Information			IP Address		VTH Short nu	mber is required
>	VTO Info						.s.
>	IP Allocate Auto				OK	Cancel	
50° ,	 Publish Information 						
് ം	UPnP Config						

Step 4 Reboot the device.

← → Ø http://192.168.1.	110/		₽ - C 🥔 WEB SERVICE
IP VDP Doc	or Station	Web Server V1.0	
System Config	Reboot Device		
 Status Statistics Logout 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					R.
Call	F	assword	Verificatio	• ×	7:36
	Password		t password: :	888888	3-31 Thur.
Monitor	1	2	3	-	
	4	5	6	0	<u></u>
	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
VTO Contin	Device Type	
VTO Config	Middle No.	
Search Device	User Name	admin
Default	Password	
Reset 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	n
Network	DenneN				
VTH Config	Room No.	101-1		Extension	
VTO Config	Master IP	192 168 1 106	Master VTH'	's IP	
Search Device	Master Name Master Pwd				
Default	Version	V4 000 0000 0 R 20170803			
Reset MSG	SSH	OFF			
	3311				
		OK			

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			
VTO Config	Middle No.	HOT 6991		
Search Device	User Name	admin		
Default	Password			
Reset MSG	Enable Status			
		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			
Network			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.

← → Ø http://192.168.1.1	10/	ନ - ୯ 🏉 WEB	SERVICE	×			
IP VDP Doo	r Station Wel	o Server V1.0					
─ System Config	IPC Information	Modify			_	×	
 Local Config LAN Config 	IPC Name	- <u>6</u>	IPC Name	Public IPC			Stream
 Indoor Manager 		20	IP Address	192.168.1.107	7		xtra Format
 Network Config 	2.		Username	admin			xtra Format ixtra Format
> Video Set			Password	•••••		IPC web interface	xtra Format
> User Manager							xtra Format
> IP Purview			Port No.	554		username and passw	Quad ormat
> IPC Information			Protocol	Local Onvif		Local for Dahua IPC;	xtra Format
> VTO Info	8		Stream	Extra Format	~		xtra Format
> IP Allocate Auto			Channel	i		Onvif for Onvif IPC	xtra Format
Publish Information				ок	Cancel		xtra Format ixtra Format
VPnP Config					Ouncer		xtra Format
▶ Info Search		0.0.0.0		admin	554	Local	Extra Format
Status Statistics		0.0.0.0		admin	554		Extra Format
Logout		0.0.0.0		admin	554		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					
s 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		IPC AddIPC_32	
Door	IPC32 Name	IPC	
S IPC	IP	192 168 1 107 IPC	IP Address
🚖 Favor	User Name	admin	
	Password	•••••	
Make sure	Port to choose	554 IPC	
Extra if netv	Stream	Extra VVR	
	Protocol	Local HCVR	
	Channel	1 IPC	
	Cancel	ОК	>

Add IPC which is connected on NVR:

9 101		IPC	
		AddNVR_33	
😫 Door	NVR33 Name	NVR_IPC	
Sa IPC	IP	192 168 1 108 NVR IP Address	
	User Name	admin NVR IP Address	
🚖 Favor	Password	******	
	Port	554 IPC	
	Stream	Extra	
	Protocol	Local VR 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					
> 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	Confirm				
▶ Info Search					
▶ Status Statistics	New Menace Password				
⊳ Logout	New Menace Password				
- ⁶ 0	Confirm				
. Q.	Auto Snapshot	C Enable	 Disable 		
	Upload Unlock Record	⊖ Enable	 Disable 		
- 19 ⁻¹		Get Card Numbers:	0		
¢.		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.

Upload Unlock Record	Enable	🔘 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'.

			_	- 200						
C () (2 http://192.168.1.11	<u>۵/ ۵-۵ (6</u>	WEB SERVICE ×		62			☆ ☆			
IP VDP Door Station Web Server V1.0										
	Digital Indoor Station Man	ager								
> Local Config										
> LAN Config	FamilyName First	tName Nick Name	Room No.	IP Address	Card No. Info	,	Delete			
> Indoor Manager			101	192.168.1.106		2	•			
Network Config			101-1	192.168.1.108		1	•			
> Video Set	Add Export Config	g Import Config Issue Card			ł	◀ ◀ 1 / 1 ► ➡ Go	to 📄 📦			
> User Manager										
> IP Purview										
> IPC Information	Card Info		_		X		Co			
> VTO Info		ard Number Username	Main Card	ReportLoss Modify			- 20			
> IP Allocate Auto		2B5BE565					ф.,			
> Publish Information										
> UPnP Config										

(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.

← → Ø http://192.168.1.	110/ ・ つ・つ 🧑	WEB SERVICE	×	. 6 ²		
IP VDP Doc	or Station Web Se	erver V1.0				
🚽 System Config	Local Config At	&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					
 IPC Information 	Lift Control Protocol	Local Protocol	✓ 🗌 Lift Cor	ntrol Enable		
> VTO Info> IP Allocate Auto	Password Unlock Type New Unlock Password	Uniform Passwo	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.

()	e http://192.168.1.1	110/ P - C	WEB SERVICE	×	
1	P VDP Doo	or Station Web Se	rver V1.0		
	stem Config	LAN Config	30.		
_	Local Config LAN Config	Building No.	01		
	Indoor Manager Network Config	Building Unit No. VTO No.	1 6901		
	Video Set User Manager	Max Extension Index		☑ Group Call	
	IP Purview IPC Information	MGT Centre IP Address	192.168.1.100	✓ Register to the MGT Centre	6
	VTO Info	MGT Port No. NoAnswer Transfer MGT	12801	No Kio	
	IP Allocate Auto Publish Information	Centre	○ Enable ● E	Disable	
	UPnP Config fo Search		Warning:The device need	Is reboot after modifing the config abov	e.
	atus Statistics		If extensionCount change Default Refr	d,need reboot VTH and init VTH informesh	ation again!
E LO	gout				

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

SMART	PSS	\$	Intercom	Device	\$ +					• 0	보 : -	ф алан — — 13:
Q Auto Search	h + /	Add	🔟 Delete	Import	ŷ Backup				All De	evices: O		Online Devices: 0
All Device												
□ No.	Na				Αι	uto Searci	۱				×	0
U NO.	INB			Devi	ce Segment:	192 . 168	. 1 . 0 -	192.168.1	. 255	Search		Operation
		⊖ Refi	resh 🕞 Modi	fy IP				Sear	ch Device Nu	ımber: 33		
		No.	. IF		Device Ty	ре		Mac		Port		
		24	10.15.1	12.32	IPC-HF5221E 4c:11:bf:9b:a3:02			37777				
		25	10.15.1	12.128	DH-SD-65F230	F-HNI-S	4c:11:t	of:65:d7:46		37777		
		26	i 10.15.1	14.161	IPC-HDBW722'	1F-MPC	3c:ef:8	c:c5:55:6d		8005		
		27	10.15.1	14.240	NVR		4c:11:t	of:76:38:04		37777		
		28	192.108	.1.109	IPC-HDBW8	3281	90:02:a	a9:42:38:fc		40003		
		29	192.168	.1.110 Da	ahua 24 ports F	oE swi	3c:ef:8	c:1c:62:1e		37777		
		3 0	192.168	.1.111	PC-NVR-V	3.0	E4:B3:1	8:DC:71:93		37777		
		31	192.168	.1.116	PC-NVR-V	3.0	AC:FD:C	E:2E:B0:E4		37777		
		= 30	231 001	1 110	AQA0010		Sc. of S	la-1f-1h-bh		37777		
									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).

SMART	PSS	Intercom	Devices	+				● 0 •	. 🌣 🕜 — 🗖 🗙 13:42:09		
Q Auto Search	h + Add	🗊 Delete	Import	ŷ ⁻ Backup				All Devices: 3	Online Devices: 3		
All Device	All Device Encode Device VTO										
No.	Name 🔺	P/Domain Name	Device Type	Device Model	Port	annel Numł)nline Statu		Operation		
1 1	92.168.1.106	192.168.1.106	DVR	VTH1510CH	37777	1/0/8/1	Online	1B00F17PAN00046	Øቑ⊳₪		
2 1	92.168.1.108	192.168.1.108	DVR	VTH1510CH	37777	1/0/8/1	Online	1B00F17PAN00074	⌀ ё ি ฃ		
3 1	92.168.1.110	192.168.1.110	VTO	VTO1220B	37777	0/0/0/0	Online	PFZ3FZ01300006	Ø ё [⇒ Ѿ		
						. 0.					

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

SM	ART PSS		Intercom		Devices	+			
.		Admin	P	•					
!		 Online Tel 	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.



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

1 01-1	Contact	
Call Log	101 lucy D	
Contact		
Call User		
Calling: lucy D	+ Add × Edit 1/	/1 < >
	255 lucy	
		ing
	~	