

User's Manual

IP PA/Intercom software package

IP-1000S1-EA



Thank you very much for purchasing TOA product.

Please read the instructions in this manual carefully to ensure long-term, trouble-free operation of the machine.

TOA Corporation

1. SUMMARY

IP PA and Intercom System Software adopts advanced IPAudio[™] technology, which is a pure digital transmission system by transmitting the signal in data packet on the LAN and WAN. The system solves the limitation of the transmission distance, susceptible to interference and such problems in traditional intercom and PA systems. The construction of the system is clear that just connecting the terminal to the computer can make up the strong digital communication system. It ingrates the computer network, intercommunication and public address without separate wiring to each interface.

1.1 Features

- Function: it covers the intercom and PA system functions such as audio streaming on-demand service, budget management, terminal management, and authorization management, and so on.
- Transmission: audio transmission distance can infinitely extend and it can be operated over LAN and internet. The system supports the significant application in a large scale, such as the centralized control room from the main campus to sub-campus, from the headquarter to the branch office, to realize the fast and reliable information communication. The program takes up only 0.1Mbps of bandwidth per channel.
- Tone quality: Terminal output level close to CD quality (44.1K, 16.bit). It is more suitable for music enjoyment and listening training, such as Colleague Entrance Examination, CET4 and CET6 listening part. All the listening material can be clearly played and the candidates will not be puzzled by the vague sounds.
- The tone quality is clear and smooth, not disturbed by external electromagnetic waves. The minimum bandwidth is only 34kbps. The calling delay in LAN is less than 30 millisecond.
- The transmission distance can be infinitely extended. With the network, it can realize the intercom and multiparty call and build information and communication system in wider scale.
- It adopts digital audio processing technology and the audio width is 7KKz. The system has the function of echo cancellation and noise reduction, and realizes full-duplex conversation, multiparty calling and zone-broadcast.
- Confidential communication, special audio coding format, encryption processing, prevent eavesdropping;
- It is simple to adjust the communication scale, and it can complete the system expansion with increasing the terminal

Function	Description		
 System overview 	Quickly understand the number of terminals, sessions, tasks, media, servers terminals online, system resource usage, and various types of tasks in the system so that the system operation is clear.		
 Terminal management 	Manage all terminals in the system, and set the intercom, broadcast,monitor properties of terminals. For example, you can configure the terminal name, bind external cameras, intercor call transfer, multi-party call, intercom permission, broadcast permission, broadcast receiving mode,monitor permission, intercom/broadcast input/output volume, and task priority.		
 Zone management 	Zoning can be planned according to the actual situation of the project. Zoning is mainly used for selection during broadcast.		
 User management 	Add/delete user account ,set the role ,the rights of each role can be customized,including function right and operation terminal right.		

1.2 Function List

Support to add ring group ,when a terminal call to the specified ringing group number , all terminals in the group will ringing according to the ringing mode.
Support to add a shortcut number to call a specified terminal .
Support to set broadcast related parameters . For example ,multicast address real-time task limitduration 、 task processing mode、 data processing mode.
Support to add audio/video conference, the conference title 、 host、 participant、 conference reminder、 video conference rotation, use the run button of the conference template to control related terminals to run a conference in one click. Support to check、 control、 manage ongoing conference in the software.
Support to view the terminal propeties and status information ,and sort&filter terminal by zone online status search.
Terminal status support list view、grid view.
Support to add schedule tasks ,set triggers to trigger an operation on a terminal or server to automatically execute a task without human intervention.
Trigger include 【Timing trigger】 and 【Event trigger】 (alarm/button/card/login/intercom/monitor/broadcast).
After trigger , the operation include [Broadcast] (file broadcast/server sound card broadcast/terminal broadcast/voice synthesis) 、 specified terminal [Intercom]、 [Monitor]、 [Delay]、 [Command] (Volume adjust/alarm/remote broadcast control/custom instructions), user can customize schedule task according to the work environment.
The schedule task support offline broadcast settings , the audio file can be pushed to termianl and save in advance ,the terminal play the media file according to the preset playing policy.
Support real-time broadcast .Real-time broadcast(file broadcast/terminal broadcast/voice composite broadcast) can be sent to the specified terminal.
User can upload the audio files to media library , as audio source to be used in timing ring, broadcast, real-time task. The files in the media library support to download, online listen, delete.
Recording files in WAV format generated by intercom, broadcast, monitor, and conference content between terminals are saved on the server. Recording files can be queried, listened , and downloaded .
Record the real-time status $\$ history records $\$ Statistical analysis, to know the system status timely and accurately .
In the real-time status report, the ongoing intercom, broadcast, monitor, alarm, conference, and alarm login events can be processed. For example, you can perform forced call release, monitor, forcible insertion, and transfer of ongoing intercom events.
Support to set multi-server $\$ SIP trunk to interact with other server for large-scale terminal expansion.
Support terminal automatic upgrade .After the terminal firmware program is uploaded to the server, the terminal automatically obtains the firmware update program from the server to upgrade the firmware. (Only supported by some terminals)

configuration	Chinese, English, Russian, Spanish, Portuguese and French can be configured.
• Extension function	Support to view the authorized status(scenrio view、map view、SIP access、APP access) of the extension module.
 Version information 	Support to viwe the version information、authorize information and restart server.
Device mantenance	Support to control device to task self-check and statistic result. (Only supported by some terminals)

Note: The above functions need to cooperate with corresponding type of device.

2. SOFTWARE INSTALLATION

A Warning: Some firewall software may effect the running of IP PA and intercom system software, therefore please close all the firewall software(including WindowsXP built-in firewall) before installing the software.



Note: when the software is running for the first time after the installation, choose"private network" and "public network" in the security alert pop-up in Windows, and then click "allow access" to allow related programs of service software to pass through the firewall, as shown in the picture below.[Note: different system server settings may not same, take Win10 as an example for this settings]

P Windows Sec	urity Alert		\times	
Windo app	ows Defende	er Firewall has blocked some features of this		
Windows Defende	r Firewall has blo	cked some features of transserver on all public and private		
	Name:	transserver		
	Publisher:	Unknown		
	Path:	C:\icpas\transserver\transserver.exe		
Allow transserver to communicate on these networks: Private networks, such as my home or work network Public networks, such as those in airports and coffee shops (not recommended recause these networks often have little or no security)				
What are the risks of allowing an app through a firewall?				
		Allow access Cancel		

	urity Alert	
Windo app	ws Defend	ler Firewall has blocked some features of this
Windows Defender networks.	Firewall has blo	ocked some features of nginx on all public and private
	Name:	nginx
G	Publisher:	Unknown
	Path:	C:\jcpas\wnmp\nginx.exe
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Private netw	orks, such as n	ny home or work network
		ose in airports and coffee shops (not recommended ten have little or no security)
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2.1 Operate Environment

- ٠ CPU: above Intel I3 series processor
- Memory: 4G or above
- Hard disk: 500G hard disk or above Network card: 100M/1000M self-adaption
- Sound card: the computer request for it and it must with stereo mixing function. ٠

2.2 Installation Steps

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This software supports Windows 7 (including) above operating system(recommend Windows 10), and not supports Window XP operating system.

Install Sever Software

Step	Operation	Diagram	
1	Confirm the computer has		
	100/1000M network card and the		
	drive program is correctly installed.		

2 In the TCP/IP settings of network can be set to automatically get the IP address.

✤Note: if the network didn't set DHCP service, please consult the network manager to get the available fixed IP.

eneral					
You can get IP set this capability. Oth for the appropriate	nerwise, you nee				
🔘 Obtain an IP	address automa	atically			
Ouse the follow	wing IP address				
IP address:		192	. 168 .	1 . 13	
Subnet mesk:		255	. 255 . 2	55.0	\mathcal{I}
Default gateway	y:	192	. 168 ,	1 . 1	
Obtain DNS s	erver address a	utomatically	,		
Ose the follow	wing DNS server	addresses:			
Preferred DNS s	server:				
Alternate DNS s	erver:			•	
Validate sett	ings upon exit			Adva	nced

Put the system installation disk, in disk:/Setup/Catalogue, double click software program to pop up welcome interface, then click the NEXT.

> Choose the installation path, click the NEXT till the installation is finished and the icon shows on the desktop.

4 Right click the shortcut icon, and choose" attribute"-"compatibility", click the "run as administrator.



2.3 Software Operation

Refresh 🗐 Cor	nfig 🔠 Extend		Start All	Stop All
	State	Start	Stop	Auto
CoreServer	~	Start	Stop	
AppServer	×	Start	Stop	V
TransServer	×	Start	Stop	V
WEBNginx	1	Start	Stop	

Double click "ICPAS controller" icon to enter server control interface.

Open the server: please check that the server IP address in "Local IP" rectangle is correct after opening the controller (when there are several network cards, please bind one of them for IP intercom and PA system use), and then check whether all servers are started or not (note: defaults is "Auto Start")

Restart the server: click "Stop All' first, and then click "Start All"

Note: 1) when server starts normally, the status bar displays $\sqrt{.}$ If displays ×, please click "Stop All" to stop all servers, and then click "Config" to check whether the server port is occupied or not.

2) Set IP access restriction: click [Config]- [IP access restriction], select "restriction" and add IP address, the restriction will be effective after preservation. IP address added access restriction allows access to the server, the factory default is unlimited (all IP allow access to server).

2.4 Software Registration

User can get authorization to use the official version server software through serial number or dongle.

Dongle: directly insert dongle to the USB (drive-free), and then reboot the server software.



License: through the WEB to access the server IP address, the system will automatically pop up the registration information. Send the machine code to the manufacturer to get the license for the usage of the official server software.



3. SERVER SOFTWARE OPERATION DESCRIPTION

3.1 Software Login

(1) In the web browser address bar, type https://server IP (for example: https://192.168.1.13), enter the user name and password in the pop-up login window.

3.2 Admin Login

When login for the first time , the default username and password are both admin , after press [Login] button, system will automatically display the option to change the password , in this case , the new password must be set .The password must contain at least three types of characters: uppercase letters, lowercase letters, digits, and special characters. The password must contain at least eight characters. Please modify the password periodically.

The way to modify the password:

After login successfully, click the "Administrator" in the upper right corner and choose "change password" to change password.

(2) After modify the password, enter the username and new password , click[login]to access to the software webpage.

	IP Intercom & PA Sy		
	* Username		
	admin		
	* Password		/
		Ø	
	Language		
	English	~	
	Forget th	ne password	
	Login		
'			

English \vee	Administrator v
	Modify password
	Switch account
	Exit

3.3 System Administrator login (for debugger login)

When login for the first time , default username is system, default password is Admin123 . The way to modify the password:

After login successfully, click the "SystemAdmin" in the upper right corner and choose "change password" to change password.

		TOA om & PA System	
	* Password		
	•••••	Ø	
	Language		
	English	. v.	
		Forget the password	
		Login	
E	inglish \vee	SystemAdmin 🗸	
		Modify password	
-		Switch account	

Exit

3.4 Device User Login

This user name must be correctly entered on the device for the device to obtain server information.

When login for the first time, the default username is device, the default password is Admin123, after press [Login] button, system will automatically display the option to change the password, in this case, the new password must be set. The password must contain at least three types of characters: uppercase letters, lowercase letters, digits, and special characters. The password must contain at least eight characters. Please modify the password periodically.

The way to modify the password:

After login successfully, click the "**Equipment account number**" in the upper right corner and choose "change password" to change password.

IP II * Usernam device	TOA ntercom & PA System e	
* Password Language English	I Ø Forget the password Login	
English 🗸	Equipment account nu Modify password Switch account Exit	mber ∨

Note: If webapge login abnormal ,the browser version maybe too early ,replace the browser or upgrade the browser.

4. Administrator Interface

4.1 Overview

After successfully login server ,the overview interface can view the following contents:

(1)View terminal number, session number, task nmuber, media number, server number.

Terminal number: Display the number of all terminals in the system. Click to enter [terminal List].

Session number: Display the number of terminals in the task (such as intercom, broadcast, monitoring, etc.), click to enter the [Report] - [real-time status] module.

Task nmuber: Display the total number of scheduled tasks in the system. Click to enter the [Scheduled Task] module.

Media number: Display the total number of audio files in the system, click to enter the [Media Library] module.

Server number: Display the total number of associated servers in the system, click to enter the [Server Interconnection] module.

(2)In"Recent login" to view the top five terminals ; In "Recent task" to view the top five task terminal;

(3) View the number of online terminal, offline terminal, terminal in task in the fan chart; View the task number of timing, event, intercom according to the task type in the bar chart.



4.2 Terminal Status

The "Status" shows terminal view mode, which supports table view, grid view.

Note: The zone information and terminal information of each view must be set in [Basic Settings] - [Zone Management] and [Terminal Management] in advance.

Table View

The interface displays in table view and it can show the zone list, terminal login status (online, offline), ID,name,IP address,and task status (such as intercom, broadcast ,idle etc.)

Dashboard	i Table View											
Terminal Status	Zone	<	Online • 2	Offline 98	All 100	In task • 0 ····	. PI	lease input number	Q			88
:≡ Table View	🔁 All		State	ID	Туре	Name	Local	IP	Task	Audio Processing	Handle	
I Grid View	B 1_Zone1		Offline	1		Terminal1	0.0.0.0	n	Idle	Tuning parameter	Talk Monitor PA	
	₽ 2_Zone2							•				
Map View	➡ 3_Zone3		 Idle 	2	XC	Terminal2	192.10	68.4.14:5060	Idle	Tuning parameter	Talk Monitor PA	
A Scene View	🗁 Undefined zone		• Idle	3	NAS	Terminal3	192.10	68.4.25:2046	Idle	Tuning parameter	Talk Monitor PA	
 Schedule Task Realtime Task 			Offline	4		Terminal4	0.0.0.0	0	Idle	Tuning parameter	Talk Monitor PA	
Media			Offline	5	-	Terminal5	0.0.0.0	0	Idle	Tuning parameter	Talk Monitor PA	
Record			Offline	6	-	Terminal6	0.0.0.0	0	ldle	Tuning parameter	Talk Monitor PA	
Report			Offline	7	-	Terminal7	0.0.0.0	D	Idle	Tuning parameter	Talk Monitor PA	
Se Video View			Offline	8	-	Terminal8	0.0.0.0	0	Idle	Tuning parameter	Talk Monitor PA	
a Conference			Offline	9	-	Terminal9	0.0.0.0	0	Idle	Tuning parameter	Talk Monitor PA	
 Basic Settings ~ Advanced ~ 			Offline	10	-	Terminal10	0.0.0.0	D	Idle	Tuning parameter	Talk Monitor PA	
জ্ঞ Advanced 🗸 🗸 DevOps			Offline	11	-	Terminal11	0.0.0.0	D	Idle	Tuning parameter	Talk Monitor PA	
0.000.000			Offline	12	-	Terminal12	0.0.0.0	0	Idle	Tuning parameter	Talk Monitor PA	
			Offline	13	-	Terminal13	0000	n	Idle	Tuning parameter	Talk Monitor På	
						Current display1-3	30items, Total 100iter	ms < 1 2 3 4	> 30 / page \lor Go	to Page		
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Table view interface:

The interface displays in table view and it can show the zone list, terminal login status (online, offline), and task status (such as intercom, broadcast ,idle etc.)

												-	Select			
Zone	<	Online • 2	Offline • 98	All 100	In task • 0		Please input number	Q				88	State		Version	IP
E5 All		State	ID	Туре	Name		Local IP	Task	Audio Processing		Handle		Local IP	Type Task	Audio Processing	Volume
E 1_Zone1		Offline	1	-	Terminal1		0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
Eb 2_Zone2																
➡ 3_Zone3		Idle	2	XC	Terminal2		192.168.4.14:5060	Idle	Tuning parameter	Talk	Monitor	PA				
Undefined zone		• Idle	3	NAS	Terminal3		192.168.4.25:2046	Idle	Tuning parameter	Talk	Monitor	PA				
		Offline	4		Terminal4		0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
		Offline	5		Terminal5		0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
		Offline	6	12	Terminal6		0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
		Offline	7		Terminal7		0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
		Offline	8	-	Terminal8		0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
		Offline	9		Terminal9		0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
		Offline	10	100	Terminal10	í.	0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
		Offline	11		Terminal11		0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
		Offline	12		Terminal12		0.0.0.0	Idle	Tuning parameter	Talk	Monitor	PA				
		· Offline	12		Terminal13		0000	Irtle	Tuning narameter	Talle	Monitor	DA				
					Current displ	av1-30items, T	lotal 100items < 1 2 3 4	> 30 / page	Go to Page							

Terminal Volume Settings

1 Broadcast ouput volume can be Terminal2 set as double click the terminal or volume, click the volume bar to increase or decrease the 9 volume. Press "OK" to run the next task at this volume, the task can be performed in this time only if click "Cancel" and the next time will not. Note: turn on the "Advanced Setting" to set the intercom input and output volume, and the broadcast input and output volume. PA out vol

Advanced setting

2 Batch Setting

Click "Batch Setting", and choose the target terminal in the list, click the volume bar to increase or decrease the volume.

Note: the volume of all terminals will be same after saving the batch setting.



Batch setting

Cancel

Х

3 Audio Processing

Click on "Audio Processing" to process the audio in the receiving and sending directions of the terminal.

Echo cancellation: Set whether to enable the echo cancellation function and adjust related parameters. After the echo cancellation function is enabled, the echo during intercom can be suppressed.

Automatic gain: Set whether to enable the automatic gain function. After this function is enabled, the input and output volume of the terminal can be multiplied according to the surrounding environment.

Noise reduction: Set whether to enable noise reduction function.

Debug recording: it is a recording tool used to debug audio processing effect, it is disabled by default.

Audio Processing(Terminal1)		Х
Echo cancellation		Direction Receive Send out
Speex Webrtc		
Length of receiving reference queue $(1 \sim 30)$		Receive cache queue length (1~30) 1 O 0
Send reference queue length (1~30) 1 〇	0	Send cache queue length (1~30) 1 O 0
Audio frame length (>0 Optional)		Tail filtering length (>0 Optional) 1024
Automatic gain 🕥		Direction Receive Send out
Noise reduction		Direction Receive Send out
Debug recording		
Provisional entry into force		Cancel Save

Grid View

The interface displays in grid and the grid view can show the zone list, terminal login status (online, offline) and task status (such as intercom, broadcast, monitor, conference, Idle etc.)

Terminal Status	Zone	< Onl	ine • 2 Offlir	ne • 98	All	100 In task	• 0		Ple	ase input	t number.	Q.							
: Table View	🗈 All	1	-	⊲: 9	2	-	⊲:9	3	-	⊲:9	4	-	⊲: 9	5	-	⊲: 9	6	-	4:9
I Grid View	₽ 1_Zone1		Terminal1			e Terminal2			C Terminal 3			Ø Terminal4			& Terminal5			Ø Terminal6	
_	₽ 2_Zone2		Idle			Idle			Idle			Idle			Idle			Idle	
Map View	B 3_Zone3				хс			NAS											
A Scene View	🕒 Undefined zone	7	X Terminal7	⊲:9	8	8 Terminal8	\$ 9	9	8 Terminal9	⊲: 9	10	Ø Terminal10	\$ 9	11	Ø Terminal11	⊲: 9	12	Ø Terminal12	
Realtime Task			Idle			Idle			Idle			Idle			Idle			Idle	
I Media		13	Ø Terminal13	⊲:9	14	Ø Terminal 14	⊲:9	15	Ø Terminal15	⊲: 9	16	Ø Terminal16	⊲:9	17	Terminal 17	⊲:9	18	Ø Terminal 18	4
Record			Idle			Idle			Idle			Idle			Idle			Idle	
Video View Conference		19	Ø Terminal19	⊲:9	20	Ø Terminal20	⊲: 9	21	Rerminal21	⊲:9	22	Ø Terminal22	⊲: 9	23	Terminal23	⊲: 9	24	Ø Terminal24	
Basic Settings ~			Idle			Idle			Idle			Idle			Idle			Idle	
Advanced ~		25	Ø Terminal25	⊲:9	26	Ø Terminal26	⊲:9	27	& Terminal27	⊲:9	28	Ø Terminal28	⊲: 9	29	Terminal29	⊲:9	30	Ø Terminal30	4
DevOps			Idle			Idle			Idle			Idle			Idle			Idle	
						Currer	nt display	1-30item	s, Total 100item:	5 < 1	234	> 30 / page	⊻ Go t	o	Page				

 Terminal volume adjustment
 Double click one terminal or click for details, see "Volume Settings" in table view.

Map View

The terminal location and status can be displayed in the map form. Users can make a marker on the map to

clearly get the login address information. In map view, the target terminal can initiate intercom, broadcast, monitor and view the videos as well.

Add terminal map marks

Step	Description
1	Select the terminal needed to be added on map in terminal list, and then right click the map to add the it to the corresponding position.
2	Right click on the appointed position on the map to add terminals.

You can also click Download Template on the interface to download the terminal import template. After editing the terminal information, click Import to import the terminal.

Note: 1) Move marked terminal position: right click appointed position on map directly after selecting the terminal in the terminal list.

2)Delete marked terminal position: click the terminal and the delete button on the pop-up information bar.

Initiate intercom, broadcast and video

In the Map view, Marked terminals can be quickly view in the terminal list. Click terminal icon on the map to check terminal login status (online, offline), and task status (intercom, broadcast, and Idle).

Click the terminal on the map, and then click the corresponding button to initiate intercom, broadcast or monitor to this terminal.

Note: who initiate the intercom, broadcast and monitor will binding the center microphone in **[Basic** Settings] - [User management], as the right picture shows.

Video

Click the terminal on the map, then click the video to check the terminal camera video in real-time

Note: This function requires video to be bound in the "Terminal" tab. see [Basic Settings] - [Terminal] as below for details.

Scene View

In the Scene View, it can display the terminal login location. Users can customize scene image, and add terminal mark or picture on the image.

It can also add the scene mark on the scene map. Click the scene mark to switch the scene. (click the left upper selection button to select different scene)

Click the terminal mark on the scene map to check the terminal login status (online, offline), task status (intercom, broadcast), at the same time, it can initiate intercom, broadcast, monitoring and so on functions (intercom, broadcast, monitoring initiator is the central microphone which is bound in [Basic Settings] -[User] tab.



Self-defined scene mode

Step	Description
1	Click "+" button to add scene pictures. It can add more scene pictures as the request.
2	Right click on the appointed location to add the mark as the terminal or scene picture as the request.

Dashboard	Scene View
Terminal Status	root(Main scene) V Online: 2 Offline: 98 Total: 100 Please input termin Q + Add Delete 2 Edit
≣ Table View	Right click on
Grid View	the appointed
Map View	location to add
🎄 Scene View	the mark as the
Schedule Task	terminal or Mark(Terminal) X
③ Realtime Task	scene pictures
🖽 Media	as the request.
Record	
🖹 Report	Cancel OK
Sr Video View	Mark(Terminal)
ප Conference	Markiscen
Basic Settings ~	Mark(Scene) ×
∉ [#] Advanced ∨	
🖏 DevOps	Please select a scene
2022-10-20 11:36:25	V4.06 20221013 RELEASE(STD)

4.3 Schedule Task

Users can set such tasks as the broadcast, alarm, intercom, timing programs in the [Schedule task]. When the server receives the triggering signal from terminals, it will automatically execute operations without the

manual intervention. For example: add one timing ring, when select "timing" in [Add-Trigger], it will set up the execution time. In the [Add -Operation] to set as broadcast. When it comes to the scheduled time, the system will broadcast the task. Please see the following detailed operation:

🔁 Dashboard	Schedule Task							
📾 Terminal Status 🛛 🗸	Scheme list	+ Add 🗐 Cale	endar Please	enter tas Q	🗍 Copy 🕷	Cut 📵 Paste 📫 Delete 🙆 Show task result	✓ Batch	··· More
Schedule Task	+Add Scheme	Enable	Name	State	Trigger	Operation	Man	More
③ Realtime Task			Break1	Idle	[Timer]00:00:00, Daily 2022-10-20	[PA] File, Length: 00:03:52[Context]	•	
🗇 Media	Break		Break2	ldle	More triggers	[PA] File, Length: 00:03:52[Context]	•	
Record								
Report								
≫ Video View								
ප Conference								
Basic Settings ~								
🖑 Advanced 🗸 🗸								
🖏 DevOps								
2022-10-20 13:28:16			١	/4.0.6_20221013_RELEA	SE(STD)			

Add Scheme

Add scheme	Add Scheme	Х
Click ^{+Add Scheme} to add the scheme. On the pop-up task window to set the scheme name. Note: Only uppercase and lowercase characters and	Scheme name Break Enable	Enable or not at a fixed date?
digits can be entered in the scheme name.		Cancel Save

Add Task

Professional edition:

Add Task

Click to add the task icon⁺ Add, on the pop-up task window to set the task name, triggers and operation. It can add various operation at the same time for one task. For the task with the same time and level, it can set the play order.

Task adding steps are as follows:

1. To set a name for a task ;

2. Add trigger (see "Add Triggers" as follow for details).

3. Add operation (see "Add Operation" as follow for details);

Push task: When a task is finished, click "Push task" to send this task to device. The push task can be executed when the device is offline. (Only some

ask name	Creator	
Break3		
Trigger Context		Operation
+ Add operation 🗇 Batch delete		
Type Context		Operation
		Cancel Save

terminals support)

It will be effective after saving settings.

Add trigger

No.	Functions	Diagram
1	Add trigger: Timer	Add trigger X
	Timing task is to execute task at the appointed time.	Trigger
	After setting the execute time, schedule, start and end date and save. It will automatically run at the appointed time.	Timer V Period Daily V
	Note: the start date must be within the start date range in the scheme.	Start date End date 2022-10-20 Image: Constraint of the start of
	Batch addition (trigger)	Cancel Save
	Timing task can work with batch addition.	Add trigger(Batch) ×
	Task cycle can work with daily/weekly/time;	Timer V Period
	Set the task start time, execution time range and interval time. The task will be executed as setting time after saved. Note: choose enabled to set the end of task date	Daily Start date 2022-10-20 2022-10-20 Execution time range 08:00:00 08:00:00 Interval(min) 30
		Cancel Save

2 Add trigger: Event

Event type

[Alarm]: The alarm trigger port is set up and the event terminal is checked. When the terminal alarm input is triggered, the specified event set in the "operation" is triggered, such as playing the specified note, triggering the dialogue, and so on, and the specific event is described in the "add operation" below.

"Is it mandatory to stop? : Under the condition of specified playing time, when checked, the alarm input is disconnected, that is, the task stops; If this parameter is not selected, the task will be completed as long as it is triggered, regardless of whether the input is closed or not.

[button]: Set the terminal button number and check the event terminal. When the terminal presses the specified button, it triggers the specified event set in the operation.

[Card]: Check the event terminal and trigger the specified event in the operation when the terminal is swiping.

[Login]: Check the event terminal and trigger the specified event in the operation when the terminal lands on the server.

[Talk]: Check the event terminal, when the terminal works, it will trigger the specified event set in the operation.

[Monitor]: Check the event terminal, when the terminal is monitored, it will trigger the specified event set in the operation.

[PA]: Check the event terminal, when the terminal initiates or receives the broadcast, it triggers the specified event set in the operation.

Add trigger	×
Trigger Event	~
Event type Alarm In Alarm In	~
Key Card Login (Only support XC device)	
Talk Call Monitor	ł.
Add trigger	X
Trigger Event	~
Event type Alarm In	V
Event Terminal Please select a terminal 2.Check the event terminal	
 ▷ All ▷ 1_Zone1 ▷ 2_Zone2 ▷ 3_Zone3 ▷ Undefined zone 	

No.

Functions

1	Add	ope	ration	ו: PA

When the operation is set to broadcast, the task is to the o time, or the terminal specified event is triggered (the specified event is the type of event set in the trigger), and the specified audio is played.

1.1 audio source type: [file]

(1)Media file adding: click + button to choose audio file which is need to be added in the file list.(The audio files in the list from the media library. Please add audio files in the media library ahead of time.)

(Note: a task can be added many audio files, but the the file format must be same. Eg, you can choose mp3 or WAV format, but you can not choose mp3 and WAV format.)

②Select the target terminal in the target area.

③Volume gradient: set whether to enable volume gradient function.

(4) Synchronous control strong cut: when the timing task runs, a short-circuit signal is generated at the same time, which is used to control the strong cut signal output of the terminal in the target area.

(5)Broadcast level: when multiple tasks meet the date of execution on that day, the highest level is executed first and at the same level, the terminal receives the task first by default, which can be modified in broadcast Settings.

(6) Play mode: can be set to play in sequence or random play (valid when the duration is not 0)

(7) The time of duration: audio broadcast time settings, default as broadcast only once. Support customized broadcast time settings. If the broadcast time is less than the file time, the broadcast will be

Add operation			3
Operation		Target(Select: 1)	All server
PA		V	terminals
Audio source		V 🔳 🖻 All 🌘	4
File		V	Zone1 🕦
Volume Inching	Volume gradient		
0	V Disable		Zone2 🕦
Control Alarm output	PA Priority(Min 0, Max 15)	> 🗌 🖻	Zone3 🚹
Disable	~ 0	∨ > □ ≥ L	Jndefined zone 🧐
Play mode			
Sequential			
Durations			
Play once			
User defined			
+ File name		Length	Operation
1 //admin//Broadcast file//	Audio1.mp3	00:03:52	Delete
			< 1 >

Diagram

Add media files	×
v 🔳 🖻 Folder 2	
🗋 Public director 🚺	
v 🔳 🖻 Private directo 3	
🗸 🔽 🗁 admin 🚺	
∨ 🔽 🖻 Broadcast file 🚺	
✓ 🔒 Audio1.mp3	
🗅 admin123 🚺	
🗅 device 🚺	
	\frown
	Cancel Save

automatically interrupted at the appionted time. If the time is longer, it will in loop broadcast.

Add operation: PA

1.2 audio source type: [terminal]

When the audio source type is terminal, when the trigger is triggered, the broadcast microphone will be broadcast to the target area. For example, set the sound source terminal number 2, and at the specified time, terminal 2 will broadcast the target area.

Enable event source number: the event terminal will be broadcast from the event terminal

Duration: The default duration is unlimited. Supports user-defined duration, automatically interrupts broadcast when the specified duration is reached.

dd operation	
Iperation PA uutio source	Target(Select: 2) All server terminals
Terminal nable the event source terminal id	✓ ► ► 1_Zone1 ● > ► ► 1_Zone2 ●
blume inching Volume gradient 0 Volume gradient Instable Volume gradient Disable Volume gradient Volume gradie	> b 3_Zone3 ① > b 9_Zone3 ② > b Undefined zone ③
ource ld 0	
unations unlimited User defined	

Add operation: PA

1.3 Audio resource type: Server Sound Card

Collect audio resource of computer server sound card to broadcast.

Add operation:PA

1.4 aduio source type:[speech synthesis]

Broadcast by converting text to audio.

General speech synthesis broadcast:

Enter the text to be played in the "speech synthesis" text box , select the target terminal and press "save" .

Event triggers speech synthesis broadcast and automatically call the event terminal name:

Add a trigger and set the trigger type to "Event", the event type can be customized, then select the event terminal.

Add operation			
Operation		Target(Select: 2)	All server
PA		V	terminals
Audio source		v 🔳 🖻 All 🕢	
Server Sound Card		✓ > ✓ En 1_Zone1	0
Control Alarm output	PA Priority(Min 0, Max 15)	> 🔽 🕒 2_Zone2	
Disable	✓ 0		
Durations		> D 3_Zone3	1
Play once User defined		> Dundefine	d zone 97
+ File name		Length	Operation
fotal media time: 00:00:00		Ca	ncel Sav

Operation		Target(Select: 2) All server
PA		v terminals
Template Delete Save		v 🔳 🖻 All 🖪
Template		✓ > ✓ b 1_Zone1 < 1
Audio source		> 🛃 🗈 2 Zone2 💶
Speech synthesis		> > 3_Zone3 (1)
Control Alarm output	PA Priority(Min 0, Max 15)	
Disable	 ✓ 0 	> D Undefined zone (97)
Background music	Text Volume	
Please choose a file first!	✓ 100%	
Background Volume	Voice Speed	
100%	✓ 0	
Voice Type		
Microsoft Huihui Desktop		
Text(UTF-8)	Music demo Insert system	
Durations		
Play once User defined		
xt(UTF-8)	Q N	Ausic demo Insert system

Add operation, operation type choose"PA"-"speech synthesis" ,click "Insert system parameters" ,speech synthesis text box will automatically insert {terminalname}, input text content before and after{terminalname}.After save take effect, the terminal name and text content of the event will be automatically broadcast when the specified event is triggered.

For example, set the trigger type to "Event"-"Login", and set the event terminal to Terminal Then click "Add 5. operation"-"Speech synthesis", and then click "Insert system parameters", enter "need support" after {terminalName}, when terminal 5 logs in to the server, the voice will be played to the specified area: terminal 5 needs support.

2 Add operation: Talk

When operation is set as talk, and set start panel ID and end panel ID, set to automatically initiate monitor at the specified time (or triggered pointed event)

Note; terminal with panel, please input panel ID.

Duration: set talk time, in seconds. Talk can not be hung up during the set time range. If have not time requirements, it can be set to 0 according to the real situation.

Enable source event ID: check event terminal from added trigger and initiate talk to target terminal.

Add operation	Х
Operation	
Talk V	
Enable the event source terminal id	
Start terminal ID	
Start panel ID	
0	
Receive terminal ID	
Receive panel ID 0	
Durations User defined User defined	
	Cancel Save

3 Add operation: monitor

When operation is set as monitor, and set start panel ID and end panel ID, set to automatically initiate monitor at the specified time (or triggered pointed event)

Enable source event ID: check the event terminal and monitor the target terminal.

Note : only the terminal with monitor function has the right to initiate monitor.

Add operation	×
Operation	
Monitor V	
Enable the event source terminal id	
Start terminal ID	
Start panel ID	
0	
Receive terminal ID	
Receive panel ID	
0	
Durations	
unlimited User defined	
	Cancel Save

4 Add operation: Delay

The server waits for the specified period to perform the next operation.

Add operation		>
Operation		
Delay		
unlimited User defined		
		Cancel Save

5 Add operation: Command

5.1 Command type: volume

Terminal volume settings when the event is triggered.

5.2 Command type: Alarm output

Alarm output number and type (closed/open) to corresponding device trigger settings, and the alarm output port closed/open durationtime.

5.3 Command type:Remote play

You can set the file number in the remote broadcast control folder and select the target terminal.it will play the file when the task is run manually or automatically.

5.4Command type: Publish info

It sets the LED screen display content (only part of the terminal support).

(1)Publish common text: Select the target terminal and enter the display text in Send Content. When the task is run manually or automatically, the LED screen will display the text content of the Settings.

(2) Countdown to the National College Entrance Examination: To enable the countdown to the National College Entrance Examination, you must add Trigger first. Set Trigger to Timing, cycle type to Daily, select start date and end date (National College Entrance Examination date), and execution time to 00:00.

Trigger setting is completed, and then in the "Add operation" - "information release" setting, pressing the Countdown button, it will automatically generate the "left ** days from the college entrance



examination" content, save after running the task, LED screen will show the college entrance examination countdown: "left ** days from the college entrance examination", at the same time, the system will automatically update the countdown days every day.

(3)Examination room release: When setting information release, click "Examination room release", select the test room, save and run the task. The content displayed on the terminal LED screen in the examination room is the examination room name set by the server. Note: The name of the examination room and the examination room terminal can be temporarily added or added in the service software [Broadcast Setting] [Examination room Setting].

Enable event source terminal number: the command terminal is the target one which is choosed by trigger.

After adding tasks, task state will be displayed in the scheme list, as the below picture shows:

+ A	Add 🗇 Cale	ndar Ple	ease enter tas Q	🕄 Сору	🛠 Cut 🖻 Paste 🗖 Delete	Show task result	✓ Batch	··· More
	Enable	Name	State	Trigger	Operation		Man	More
		Break1	Idle	[Timer]00:00:00, Daily 2022-10-20	[PA] File, Length: 00:03:52[Co	ontext]	•	
		Break2	ldle	More triggers	[PA] File, Length: 00:03:52[Co	ontext]	•	

Enable or disable task/ modify or delete task/ start or stop task:

 enable or disable task 	Check task and click to button in the toolbar to enable or disable task;
 Modify task 	Double-click the task directly or click the "More" — button at the far right of the task list, and select the "Modify" option to modify the task. (Double-click the to modify the task)
Delete task	Select the task, click the "More" — button at the far right of the task list, and select the "Delete" option to delete the task;
 Manually start/stop the 	Select the task, click the "Start" button to manually start the task, click the "Stop" button to manually stop the running task; Or check the specified task, click button to manually run or stop
task	the task .
 Copy/Cut/Paste 	Check the task, click the "Copy" or "Cut" button, select another

	program, and click the "Paste" button to paste the task to other programs.
Daily task	Click the button scheduled task of the day;
Batch	Check the task and click the "Batch" button to batch modify the task cycle type、add terminal 、 delete terminal、 sound source modification.Supports query of temporary batch records.
Sort by time	Click button, choose "Sort by time" to sort by task execude time
Sort by name	Click button, choose "Sort by name" to sort by task name.
Export	Click button, choose "Export" to export the scheduled task.
Import	Click button, choose "Import" to import scheduled tasks.
 TemplateDownlo ad 	Click button, choose "TemplateDownload" to download the template for importing scheduled tasks.

Table view/calendar view

On the main interface of schedule task , default display is table view. Click the "Calender View" button on the planned task interface to switch in calender view, which supports displaying monthly, weekly and daily task.

🖺 Schedule Task							
Scheme list	+ Add	Please enter tas	Q	🕽 Copy 🕷	Cut 🗊 Paste 🗇 Dele	ete 🕒 Show task result	✓ Batch … More
+Add Scheme	< > Today		1	7 – 23 Oct 2022			Month Week Day
	Mon 17/10	Tue 18/10	Wed 19/10	Thu 20/10	Fri 21/10	Sat 22/10	Sun 23/10
Break	周42			00:00 Break1 13:30 Break2 14:00 Break2 14:30 Break2	Break2[2022-10-21]	00:00 Break1 13:30 Break2 14:00 Break2 14:30 Break2	00:00 Break1 13:30 Break2 14:00 Break2 14:30 Break2
				15:00 Break2	15:00 Break2	15:00 Break2	15:00 Break2
1				15:30 Break2 16:00 Break2	15:30 Break2 16:00 Break2	15:30 Break2 16:00 Break2	15:30 Break2 16:00 Break2
		V4.0.6_2022101	13_RELEASE(STD)				
Click a task,press Press III 🖉 t	Disable Enabl				ed the task; e task .		

Click a task, press O Cancel Click a task, press C Cancel Click a task, press C Cancel C Resume button can delete or resume the current task temporarily .

4.4 Real-time Task

Real-time task supports file, terminal and speech synthesis broadcast. Select broadcast type and check target terminals, and then click start to initiate real-time broadcast.

Dashboard	() Realtime Task		Temporary Temporary Start
📾 Terminal Status 🛛 🛩	Task type		Terminal list
Schedule Task	团 Server Sound Card	Cycle or not Volume gradient	Show Undefined Display cross s
③ Realtime Task	D File	v 🖻 Folder 🕗	V 🔳 🖻 All 🔞
Media	Terminal	D Public directory 🕐	> 📄 🕒 1_Zone1 💶
	Speech synthesis	> 🗅 Private directory 🕘	> 📄 🖻 2_Zone2 💶
Record	Real time shouting		> 🔽 🖻 3_Zone3 💶
Report			
Ser Video View			
ප Conference			
Basic Settings ~			
📽 Advanced 🗸 🗸			
ふ DevOps			
2022-10-20 14:36:25		V4.0.6_20221013_RELEASE(STD)	

(1)Server sound card: collect computer sound card on the server to broadcast to target terminal.



(2) File broadcast: use audio file of media library to broadcast to the target terminal.

Operation method: Select "File" for broadcast type, and then left-click to select audio files in the file list (please add audio files in the "Media Library" module in advance), then select the target terminal, and press the "Start Broadcast" button to broadcast.

Note:left click to select the audio, double click can online audition.

(3)**Terminal broadcast**:Set terminal ID of initiating broadcast , the terminal will initiate broadcast to target terminals.

Operation Method: Set Broadcast type to "Terminal", set the ID of the terminal that initiates broadcast, select the target terminal, and press the 【Start Broadcast】 button. The terminal can initiate broadcast to the



ask type		Terminal list
환 Server Sound Card	Terminal2(2) V B-All > Eb-1_Zone1 V D-2_Zone2 	
Real time shouting	Blaces Bundefined zone	>

(4) Speech synthesis: Broadcast to the target areas by text convert to audio.

Operation method: Input the broadcast content in the "Speech Synthesis" text area, and set the voice type, speed, background music, volume and other information. Then select the target terminal and press the [Start Broadcast] button to broadcast.Voice Speed: Set the speed of the speech during speech playback. When set in 0, it means playing at normal speech speed.

Background music: set the background music of voice broadcasting. The background music is an audio file uploaded to the media library.

Text template settings: input the words in the speech synthesis, and then click "Save" to input the template title in the pop-up dialog box, it will be effective after saving. Choose the corresponding template to make broadcasting in the next time.Choose the corresponding

template ,press"delete" button to delete.

Export audio:Export text audio files to a specified path.

Task type				Terminal
团 Server Sound Card	Template Delete Save	⊥ Export		list Show Undefined Display cross s
D File	Template			
I Terminal	Text(UTF-8)	A Music demo	⊥ Import	🗸 🔳 🗁 All 3
Speech synthesis				> 📄 🗁 1_Zone1 💶
Real time shouting				> 📄 2_Zone2 🕦
				> 🗹 🗁 3_Zone3 🕦
			ĥ	
	Voice Type	Voice Speed	ļ.	
	Voice Type Microsoft Huihui Desktop V	Voice Speed		
			<i>k</i>	
	Microsoft Huihui Desktop V	0	~	
	Microsoft Huihui Desktop V Background Volume	0 Text Volume		

When you use Real time shouting function, you need to configure it.

1. When you access the server from the internet, you need to configure internet mapping on the web. The configuration depends on the actual environment.

Ports and protocols	Binding network card White list settings	
Default	Exterior network mapping IP	×
l Port	IP-Internal(Ext.) 116.63.149.48	Manual
Core server 5060,16000-20000	Port-Internal(Ext.) 5070]
Web front end server	WSPort 5067	
	Enable-ExternalCommunication	
Web agreement Select	Disable v	
HTTP and HTTPS	auto-nat	
	Port-ExternalCommunication(Ext.)	
	Cancel	Save

2. Disable the Network adaptive(FEC, RTX), and enable the RTCP data transmission function.

(5) **Real time shouting:** Set Whether to enable real time shouting function.

IIN Home	Comprehensive parameters	Alarm ma	nagement Audio and vie	deo parameters
Basic settings				
Advanced	Default	Save		
Composite	Teminal No.			
Platform access	Teminal No. digit(3)		Handshark detection time	
	0	7	10 min	~
Security manage	5	,		
Custom	Network adaptive			
System managem	FEC		RTX	
oystern managem	Disable	\sim	Disable	×
Version	Data transmission			
	RTCP data transmission		RTP Transmission Optimiza	ation of UA
	Enable	×	Disable	V

3. Nginx configuration: To send sip signaling through the web, we need to use the websocket. The configuration of the web page is as follows:

← C ⊕ 10.1.8.20)/#/system/network
	Ē
II \ Home	Ports and protocols Binding network card White list settings
Basic settings	
Talk settings	Default Save
Broadcast settings	IP White list settings
Meeting settings	IP White list settings (IP)
Network settings	
📮 Advanced 🛛 🗸	-
	Security-policy White list settings
	Security-policy White list settings (agreement , IP:Port)
	ws://10.1.8.200:5066,
	- ws v 10.1.8.200:5066 +

Note:

1. If external network mapping is performed, then use the mapped ip address. If not, then use the ip address that the XC9000 server bound.

2. For ws port mapping, 5067 is used (the same figure as above); If there is no mapping, fill in 5066. (5066 is the default boot port for ws)



5. Restart the server and browser after the preceding configurations are modified.

4.5 Media

Users can upload audio recourse to media as the audio recourse of timing belling, broadcast and real-time tasks. Audio recourse of media support download, online audition and delete.

Add audio files

1. Click the E Add Folder button to build new files catalog.

Note: The file directory name can contain only uppercase and lowercase characters and digits.

2. Select pointed catalog, click ^L Upload file button to upload audio files need to be added to the media library, file format supports MP3 and WAV. (It is ok for adding different bit rate audio files, the system background will be automatically converted to qualified bit rate files)

③ Dashboard	🗇 Media									
🚍 Terminal Status 🗸 🗸	🗈 Add Folder 🛛 Del Folder 🖉 Edit Folder	ム Upload file	Batch delete	🕹 BatchDownload	Input media name	Q				
Schedule Task	V 🗁 Folder		File type		File name		File size		Operation	
③ Realtime Task	Public director Private directo		mp3		Audio1.mp3		8.96M	Download	Music demo	Delete
🗇 Media	 ✓ E admin 									
Record	D Broadcast file									
Report	🗅 admin123									
S≫ Video View	🗅 device									
a Conference										
Basic Settings ~										
s [#] Advanced ∽										
🖏 DevOps										
					Current display1-1items	Total 1items < 1	>			
2022-10-20 13:18:55			V4.	.0.6_20221013_RELEASE	STD)					

chrome://flags in the url, and restart the browser after the modification is complete.

4.6 Record

Server recording:

This server can save record files on the server in form of WAV format of intercom, broadcast, and monitor between terminals for downloading and reviewing later.(Note:Please use "system" account to login, enable the recording function in the "Basic settings"-"Composite settings"-"Audio and video configuration"in advanced)

Inquiry/ download/ audition recording files:

Recording files can inquiry by category, time and terminal number. Select the file type and start time, press the search button *Q* to inquiry the recording file (If you need to follow the terminal inquiry, please input the terminal number), after inquired the recording file, click the [Download] or [Music demo] button on the right to download or listen to the recording file online. Note: if "Video Record" function is enabled in "Talk" of terminal management, you can check and download the video files.

🕸 Dashboard	Record					
📾 Terminal Status 🛛 🛩	Server recording	Pickup recording				
Schedule Task	All	V 2022-10-21	→ 2022-10-21	自 Please input	t numb Q	
③ Realtime Task	Туре	Inbound	Outbound	Start time	File size	Operation
🗇 Media						
Record						
🖹 Report				No Data		
℅ Video View						
ස Conference						
🕄 Basic Settings 🛛 🗸						
📽 Advanced 🗸 🗸						
් DevOps						
			Current	display0-0items, Total 0items	< 1 >	
2022-10-21 14:32:58			V4.0.6_202210	13_RELEASE(STD)		

Pickup recording:

The server can generate audio and video files of the alarm information of the pickup and save them in the server for downloading and playback when needed in the future. (Note: Please log in as the system user and enable the recording function in Advanced Settings - Comprehensive Settings - Audio and Video Parameters - Recording and Recording Configuration)

🔁 Dashboard	Record
📾 Terminal Status 🛛 🗸	Server recording Pickup recording
Schedule Task	2022-10-21
③ Realtime Task	Operation mode ID Local IP Alarm type Panel number Alarm Alarm Alarm time Operation
🗇 Media	
Record	
🖹 Report	No Data
Se Video View	
串 Conference	
総 Basic Settings 🗸	
ి Advanced 🗸 🗸	
ふ DevOps	
	Current display0-0items, Total 0items < 1 >
2022-10-21 14:35:06	V4.0.6_20221013_RELEASE(STD)

4.7 Report

Record real-time status, history and statistical analysis of the equipment.

Set the rights to view reports for different users in [Basic Settings] -- [User Management] -- [Role Management], for detail operation steps please refer to the introduction of [Role Management].

[Real-time status] Records ongoing intercom, broadcast, monitor, alarm, conference, alarm login events. In real-time status, the records disappear after intercom, broadcast, monitor, and conference tasks stop. Users can view detailed records in the [Historical Record] module (export to Excel format). View statistical reports in the [statistical Analysis] module

	ical Analysis	module.				
Dashboard	🖹 Report					
🖨 Terminal Status 🗸 🗸	State History Analyze					
Schedule Task	All	 ✓ ✓ Please input number 	Q			Clear all O Refresh
③ Realtime Task	Туре	Time	Source	Target	State	Operation
🖾 Media	Talk [Inbound]	2022-10-21 14:36:28	Terminal2(2)	Terminal3(3)	Answered	Hangup Eavesdrop Insert Transfer caller
E Report	Talk [Outbound]	2022-10-21 14:36:28	Terminal2(2)	Terminal3(3)	Answered	Hangup Eavesdrop Insert Transfer caller
➢ Video View	Register	2022-10-21 14:36:17	Terminal2(2)		Login	Delete
 Conference Basic Settings 	Register	2022-10-21 13:37:06	Terminal2(2)		Logout	Delete
⊗ Basic Settings ⊗ Advanced	Register	2022-10-21 13:35:18	Terminal3(3)		Login	Delete
্র DevOps	Register	2022-10-21 13:07:32	Terminal2(2)		Login	Delete
	Register	2022-10-21 12:26:13	Terminal2(2)	-	Logout	Delete
	Register	2022-10-21 11:25:41	Terminal2(2)		Login	Delete
	Register	2022-10-21 09:53:01	Terminal2(2)		Logout	Delete
	Register	2022-10-21 09:08:41	Terminal2(2)		Login	Delete
			Current direland 10	items Total 10items / 1 >		
2022-10-21 14:36:31			V4.0.6 20221013 RELEAS	items, Total 10items < 1 >		

Real-time status event processing: You can delete related events, call forcible release , and monitor. (Note: Different operations can be performed for different attribute tasks. For details, see actual situations.)

Real-time status event processing

Hangup: Press "Hangup" button to forcibly stop an ongoing intercom task.

Eavesdrop: Select "Eavesdrop" and input the ID of the terminal in the dialog box that is displayed. The terminal can eavesdrop to a specified call.

Insert: Select "Insert", input the ID of terminal in the dialog box that is displayed, the terminal can forcibly inserted into an intercom.

Transfer caller: Transfer the caller to other terminal.

Transfer callee: Transfer the callee to other terminal.

Hold/Unhold: Press [Hold], the call will be hold, press [Unhold], the call will be recovered.

Start push/Stop push: When interconnecting with a streaming media server, you can push streams to the streaming media server (reserved function).

4.8 Video View

Video view is additional module, which will be available after authorization. Please choose the module and input the license code in "Advanced" - "Extension" (please contact the manufacturer for license). Click the download button to download video control, and restart the browser after installation.

Video preview

Double click the terminal bound video in the terminal list to preview the camera real time video (bind video please refer to "basic setting"-"terminal management")

View switch

Click the Click

Video tour

Set video tour to realize automatically diaplay multi-channel video. Operation as below:

1) Right click under the tour list, select Add button to add group. Check terminals need to tour in the list, and then click to add, it will be effective after clicking save.

2) Right click 🗐 icon in the lower right corner of computer , and then select "Config" to set tour time.

3) After setting, the video will automatically tour display according to the set time after dragging added groups to the video preview in the tour list.

Hangup Eavesdrop Insert Transfer Transfer Hold Unhold Start Stop caller callee push push

4.9 Conference

Support to adding video/audio conference and it can directly control and manage parties of conference on web page.

Dashboard	송 Conference	e												
📾 Terminal Status 🛛 🗸	Template	Current	Document	Vote	Custom	Face sig	gn in record							
Schedule Task	+ Add													
 Realtime Task Media 	Title		Туре		Enable	e a	Make an appointm ent	Host	Particip	ant	C	peration	Ope	ration
Record	WeeklyMeeti	ng	Video		Enable			Terminal1(1)	4,5,			Start	Edit	Delete
 B Report S Video View 	R&DInternal	Conference	Audio		Enable	e I	No	Terminal1(1)	2,3,			Start	Edit	Delete
ප Conference														
纷 Basic Settings 🗸 🗸														
🖋 Advanced 🛛 🗸														
్షి DevOps														
2022-10-21 14:52:35	_					V4.0.6_2	0221013_RELE	EASE(STD)						

(1) Conference template settings

The conference can be viewed, added, modified, run on the interface of conference template .The conference which is set in the conference template can be showed simultaneously on the conference display of the IP network visualized control host ,click and run by manully.

Press[add] button to add a new conference template , for detail operation as following:

Title			Туре				Polling time (single terminal default is 0s)
MondayCo	onference		Video			\sim	10s
Host [Termi	inal1(1)】		Make a	Sp	peech	Enable	Terminal5(5)(5)[Delete]
Terminal1((1)	\sim	Yes		Yes	Yes 🔵	Terminal4(4)(4)[Delete]
Meeting rem	ninder type						
Ring to rer	mind					\vee	
Period			Start date	e			
Once		\sim	2022-10	0-21 14:	53:02	Ė	
	meeting to remi	nd the	The appo	intment	time(hou	ır)	
interval 15min			1			\vee	
ismin							
+	ID	Name		Sort &	Delete	Tacit speech	
Host	1	Termina	al1(1)			No	
#	2	Termina	al2(2)	\mathbf{v}	^ Ū	No	
#	3	Termina	al3(3)	\mathbf{v}	^ Ū	No	
#	4	Termina	al4(4)	\mathbf{v}	^ Ū	No	
#	5	Termina	al5(5)	\mathbf{v}	^ 🖸	No	
						< 1 >	

enable	conference reminder notification within the specified time.
[Appointment]、 [Speech	Reminder type:Support message reminder and ringing reminder.
follow]function	Start time: Remind the start time of the conference.
	Schedule a conference reminder time: Choose reminders 15 or 30 minutes before the meeting starts.
	The appointment time: Appointment duration of a conference (The specific duration is based on the actual conference duration, which is use as a reminder).
	2)Speech follow: After enabled , the terminal need to be set into the conference template , when the participant speech , the video will be displayed at the top of the corresponding area.
(5) Add participant	Set the conference participants ,support to choose multiple conference participants .
(6) Conference melting screen video rotation settings(audio conference no support)	If the video conference is set, according to different melting screen types can be set, support 1、2、4、9、16 etc. grid melting screen. That is, during the conference, the screen can display 1, 2, 4, 9, 16 grid video.Each grid support to add one or more terminal, but the terminal checked by each grids can not be repeated.In the list of participants, select the corresponding terminal and drag it into the video display box.

Current Conference

The current conference template display the current ongoing conference, choose the corresponding conference ,click "Enter" button to enter into the management interface of the conference, support add $\$ all mute $\$ all invite.

🕄 Dashboard	🙈 Conferer	nce				
🚍 Terminal Status 🛛 🗸	Template	Current	Document	Vote	Custom	Face sign in record
Schedule Task						
() Realtime Task						
Media						
Record						
🖹 Report						
👳 Video View						
ප Conference						
ቆ Basic Settings ~						
そ、DevOps						
2022-10-21 16:48:34					V4.0	0.6_20221013_RELEASE(STD)

Document

On the document management page, you can upload files (Word, PDF, Excel and PPT formats are supported) required by the meeting to the service software. During a terminal meeting, you can use the uploaded files for preview or screen display.

The UploadDataTool tool is required to upload files. (If you need to upload files, please contact our technical support to obtain the upload tool.)

Click the refresh button, and the file list will display the uploaded document. Click the Preview button to preview online, and click the Delete button to delete the document.

🔁 Dashboard	송 Conference				
🚍 Terminal Status 🛛 🗸	Template Cu	urrent Document Vote Custor	m Face sign in record		
Schedule Task	C Refresh				
③ Realtime Task	Name	Creator	Jurisdiction	Preview	Operation
Media					
Record					
Report			No Data		
See Video View					
ස Conference					
ቆ Basic Settings 🗸 🗸					
📽 Advanced 🗸 🗸					
ペ DevOps					
2022-10-21 16:49:28			V4.0.6_20221013_RELEASE(STD)		

Vote

Add a vote in Vote Management. The IP network visual console can initiate a vote during a meeting.

🔁 Dashboard	a Conferer	nce								
🚍 Terminal Status 🗸 🗸	Template	Current	Document	Vote	Custom	Face sign in record				
🗐 Schedule Task	+ Add									
③ Realtime Task	Topic		Creat	or		Jurisdiction	Result	Preview	Opera	tion
Media	Which colo	r to choose	admi	n		Everyone can see it	Result	Preview	Edit	Delete
Record										-
🖻 Report										
See Video View										
ප Conference										
용 Basic Settings 🗸 🗸										
ぷ DevOps										
2022-10-21 16:58:02					V4.0	.6_20221013_RELEASE(STD)				

Vote setting procedure:

Num ber	Function	Diagram
	A 1 1 /	

1 Add a vote

Select Vote Management and press the [Add] button to add a

vote. In the dialog box that is displayed, perform the following Settings:

(1)**Topic:** the title of the vote.

(2)**Voting content:** Each line represents a voting question, and the format should be (question: Answer 1, Answer 2, Answer 3.....), Separate single options with commas, and separate multiple options with semicolons. (Note: Punctuation marks in voting content should be entered in English)

Note: After saving, you can click the preview button to preview whether the voting setting is qualified.

2	After	а	vote	is	created,	the
	create	d ۱	ote is	dis	played on	the
	Vote r	nar	nagem	ent	page.	

During a terminal meeting, the moderator can press the Initiate Vote button to initiate a vote set by the server. Participants in the meeting will receive the vote initiated by the moderator. After the vote is complete, the voting result is displayed on the moderator's voting screen. In the meantime, you can view the voting results in the service software.

3 Preview of voting results: Click the preview button to preview the voting results after the voting.

Add	Х
Topic	
Which color to choose	
Jurisdiction	
Everyone can see it	\sim
Data	
Tip: single line describe single question, format: (QT:Answer1,Answer2,Answer3) Single: Which animal you like:Cat,Dog,Pig Multi: Which animal you like:Cat;Dog;Pig	

Topic	Creator	Jurisdiction	Result	Preview	Operation	
Which color to choose	admin	Everyone can see it		Preview	Edit	Delete
Custom

A customized meeting room is a virtual meeting room. Users can dial the customized meeting room number to join a meeting without using the service software or the moderator. Note: You must enable the customized meeting room in Meeting Management module.

Add a conference room: Press the Add button to set the conference room number and name (Note: The conference room number cannot be the same as the terminal ID number). Click Save after setting.

Meeting: Any terminal can directly call the number of the added meeting room to enter the meeting room.

🔁 Dashboard	ළ Confere	nce				
📾 Terminal Status 🛛 🗸	Template	Current	Document	Vote	Custom	Face sign in record
Schedule Task	+ Add					
③ Realtime Task	Conference	room numbe	er		N	Name Operation
Media	1				N	Veetingroom1 Edit Delete
Record	2				N	Meetingroom2 Edit Delete
Report	2				IV	
⇔ Video View						
ස Conference						
🕄 Basic Settings 🛛 🗸						
ペ DevOps						
2022-10-21 17:10:52						
2022-10-21 17.10.32					V4.0	0.6_20221013_RELEASE(STD)

Face sign in record

Record the check-in record of the face of signing in to the meeting.

🔁 Dashboard	a Conference					
🚍 Terminal Status 🛛 🗸	Template Cu	urrent Document	Vote Custom	Face sign in record		
Schedule Task	+ Add					
③ Realtime Task	Conference room	m number		Name	Opera	ation
Media	1			Meetingroom1	Edit	Delete
Record	2			Martinen and	Edit	Delete
🗈 Report	2			Meetingroom2	Edit	Delete
Se Video View						
ස Conference						
Basic Settings						
🖋 Advanced 🗸 🗸						
🖏 DevOps						
2022-10-21 17:10:52			V	4.0.6_20221013_RELEASE(STD)		

4.10 Basic Settings

Terminal Management

Terminal settings can be operated at the time of installing software, you can add terminal/ modify terminal/delete terminal in the terminal management interface.For detail operation see the following.

හ Dashboard	🛃 Terminal										
🖨 Terminal Status 🛛 👻	+ Add All		∨ P	lease input numb Q					Online •	2 Offline 98 All 100	Batch Y More Y
Schedule Task	St	ID	Туре	Name	Talk	PA	Monitor	Confere	Volume	Priority	Operation
③ Realtime Task	•	1	-	Terminal1	All 2,3 2,3	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
📾 Media	•	2	XC	Terminal2	All 1 1	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
Record	•	3	NAS	Terminal3	All 1 1	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
 Report Video View 	•	4	-	Terminal4	All - -	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
➢ Video View A Conference	•	5	-	Terminal5	All - -	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
Basic Settings	•	6		Terminal6	All - -	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
🛱 Terminal	•	7		Terminal7	All - -	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
88 Zone	•	8		Terminal8	All - -	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
💩 User	•	9		Terminal9	All - -	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
३٤ Dial up manag	•	10		Terminal10	All - -	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
द्⊄ Broadcast setti	•	11		Terminal11	All - -	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
유 Multi-server 양 Advanced ~	•	12		Terminal12	All - -	All Unicast Unicast	All	All	09 09 09 09	Conference > PA > Talk > Mon	Edit Delete
ন্ধ Advanced 🗸	•	4.5		T 1 45					00100100100	· · · · · ·	600 (634)
, octopa					Current display1-30items,	Total 100items < 1 2	4 > 30/	page \vee 🛛 Go te	o Page		
2022-10-24 10:57:04					V4.0.6_20	221013_RELEASE(STD)					

Edit Terminal

Enter into [Basic settings] — [Terminal management] — click "Add" to add terminals (or double click the terminal and modify terminal attribute), set basic attribute/ talk attribute/ monitor attribute/ PA attribute/ volume/ task priority of terminals.

No. Description

Diagram

1 "Basic" attribute

1)Set terminal ID and name.

 $\stackrel{<}{\mathbf{\nabla}}$ Note: terminal ID is unique, can not repeat with other host numbers. It is suggested to use a positive integer starting from 1 as the terminal No.

(2) Terminal password: The default is 1234, after the password is changed, you need to change the device password to ensure normal login.

③PIN code: if XC-APP access function is enabled in "Advance"-"Extension", the PIN code of the APP device can be filled in.

(4)Binding video: The real-time preview function of the server video and the event-linked automatic video pop-up function must be bound to the video, and the video of the terminal's own camera or the environment camera gun can be bound. The operation

Add ter	rminal									Х
Basic ID	Talk	Monitor	PA	Conference	Volume	Priority	Subdivision	Ext.	Audio Processing	
2										
Name										
Recept										
Passwor	d									ø
PIN(use	for APP)									
Binding	video									
Bind NV	R									
									Cancel	Save

mode is as follows:

Video address format is rtsp:// username: password@IP address: port; (eg.rtsp://admin:123@192.168.1.1

(eg.nsp://admin:123@192.168.1.1 01:554)

Bind more than one video address, please divided by \$ (eg. rtsp://admin:123@192.168.1.101:5 54\$rtsp://admin:123@192.168.1.1 02:555)

(5) **Binding NVR:** NVR address Format: NVR Type: User name: Password :IP address: Port: Channel number. (for example: dh: admin: admin123:192.168.1.101:3777:1)

2 "Talk" Attribute

Call target: set terminal call map, at most point 5 (when the target is busy or power off, call will automatically transfer to the next target); if you need fixed call to the terminal, please point all 5 targets to this terminal.

Extension call target: double click terminal button, target terminals can be set in the "ExCall Target" (left button corresponds to call target, right button corresponds to extend call target), the principle is consistent with the call target.

Manage target: set managed terminal, the machine will no longer receive server task within the specified period of time, and the related functions such as intercom will be performed by managed terminal.

Transfer time: when target is busy or power off, call will automatically transfer to the next target time, time range can be set to 0-120s.

Note: if you need set more than one target terminal ID, please divided by English comma ",";

Outbound(pitch shift): After enabled ,the voice received by the other side is processed after pitch shift.

Multiparty calls: set whether to enable multiparty calling.



Talk range: set talk permissions of

terminals, it is suggested to check all. Enable video recording: only applicable to the terminal binding with a camera. Recording files will be generated during talking, which can be previewed or downloaded in the interface of "Recording". (The terminal with camera have video, the terminal without camera have no video). "Monitor" attribute 3 Add terminal X Monitor terminal and monitor Basic Talk Monitor PA Conference Volume Priority Subdivision Ext. Audio Processing permissions can be set in the Monitor range check monitor attribute, $\label{eq:all_linear} All \times ~~ 1_Zone1 \times ~~ 2_Zone2 \times ~~ 3_Zone3 \times ~~ Undefined ~ zone \times ~~ + 100 \ldots$ authorized terminals in the Cancel Save "Monitor range".

Add terminal

Talk Monitor

PA send transport mode Unicast

PA receive transport mode

PA Conference

All x 1_Zone1 x 2_Zone2 x 3_Zone3 x Undefined zone x + 100 ...

Volume

Priority

Subdivision Ext. Audio Processing

Basic

PA range

Unicast

Х

Cancel Sav

4 "PA" attribute

Broadcast permissions of terminals and the transmission mode of receiving and sending broadcast can be set on the PA attribute.

The system send audio resource to terminal by default.

Name	Explanation	Advantages	Disadvantages
Unicast	The one to one communication mode between the server and terminal, switcher in the network only transmit data and not copy. If 10 terminals require the same data, the server need to transmit data one by one 10 times.	Server aims at every different customer's requirements to send different data, it is easy to realize personalized service.	Server aims at every terminal to send data flow, server flow = terminal quantity x terminal flow; The server load is heavy in the flow media application of big quantity terminals and terminals with large flow.
Multica st	The one to one communication mode between server and terminal, it means that hosts joined the same group can accept	Client sides needed the same data flow join the same group to share one data flow, which is save the load of the server.	At present, although devices are support multicast transmission, but limit the use of multicast (specially in WAN)

all data in this group. Switcher only transmit and copy the required data to demander.

5

6

7



Task priority

Set task priority and terminal levels.

When terminals carry out more than one tasks, higher-priority task is able to cut off the lower-priority task. When the task type is same, it is decided by the terminal level.

Task priority ordering: click **^ to** rank.

Terminal priority settings: click or pull the on the terminal lever line.

Add terminal PA Subdivision Ext. Audio Processing Basic Talk Monitor Conference Volume Priority Task type Sort Recieve conference level 2 Recieve PA level Recieve talk level 3 \mathbf{v} 4 Recieve monitor level Concurrent tasks of different types Disable Terminal Priority(Min 0, Max 15)The terminal determines the priority according to the task type. If the task type is the same, the d on the terminal priority initiated Cancel

8 Subdivision

When the subdivision is set for broadcast console to initiate broadcast on the terminal of the tape zone/panel, different zones/panels can be selected for broadcast, which is convenient and flexible.

4

Type: select

а

subdivision or panel based on the terminal type.

Number: set the number of zones of the terminal, select 4 zones, 8 zones and 16 zones according to the actual situation;

Name: customize each zone name.

9 Audio Processing

It can process the audio in the receiving and sending directions of the terminal.

Echo cancellation: Set whether to enable the echo cancellation function and adjust related parameters. After the echo cancellation function is enabled, the echo during intercom can be suppressed.

Automatic gain: Set whether to enable the automatic gain function. After this function is enabled, the input and output volume of the terminal can be multiplied according to the surrounding environment.

Noise reduction: Set whether to enable noise reduction function.

Debug recording: it is a recording tool used to debug audio processing effect, it is disabled by default.

Add terminal						>	(
Basic Talk Monitor P.	A Conference	Volume	Priority	Subdivision	Ext. Direc	Audio Processing	
Speex Webrtc Length of receiving reference que 1 O Send reference queue length (1 1 O		C	1 O	cache queue ler		0	
Audio frame length (>0 Option	al)		Tail filte	ring length(>0) Optiona	al)	
Automatic gain 🔘					Direc	tion Receive Send out	
Noise reduction					Direc	tion Receive Send out	
Debug recording 🔘							
						Cancel Save	



2 Batch modify

Click Batch > " Batch" button, and select " batch modify", and then check the terminals and terminal attributes need to be modified on the " Terminal list"

After batch modification, press the "save current page" button to save the current page parameters. click"save change all"button to parameters of all terminals to become consistent.(For example, if the "Intercom" parameters are modified in batches, press the "Save current page" button to synchronize the "Intercom" parameters of the selected terminal, but the unmodified parameters such as monitoring, broadcasting, and conference remain unchanged. If you click the "Save All" button. the parameters of monitoring, broadcasting, and conference become consistent.)





More

No	Functions	Description
1	Sync Host	Click More '' More'' button and select "Sync Host", you can refresh the current list of terminals.
2	Template Download	Click More * "More" button and select "Template Download", you can download the terminal import template.
3	Import	Click ^{More} 'More" button and select "Import", you can import terminals.
4	Export	Click ^{More →} "More" button and select "Export", you can export terminals.

Zone management

On the "Zone" management interface, zones can be divided by the project real situation, zones are mainly used for broadcasting zone selection.

🔁 Dashboard	📲 Zone										
🕀 Terminal Status 🛛 🗸	Local partition	Cross server partition									
Schedule Task	+ Add										
③ Realtime Task		ID	Name		Member		So	rt	0	peration	
🖽 Media		1	Zone1		1		\checkmark	^	Edit	Delete	
Record		2	Zone2		2		\checkmark	^	Edit	Delete	
Report		-	LONCE		-		•	~	Con	berete	
See Video View		3	Zone3		3		\checkmark	^	Edit	Delete	
ප Conference											
Basic Settings											
뮹 Terminal											
88 Zone											
යි. User											
≱∉ Dial up manag											
📢 Broadcast setti											
命 Multi-server											
¢ [®] Advanced ∨											
冬 DevOps						— .					
2022-10-24 13:38:47					display1-3items, Total 3items <	1					
2022-10-24 13:38:47				V4.0.6_202210	013_RELEASE(STD)						



No.	Functions	Diagram				
1	Add zone Click "add" ^{+ Add} button,	Add zone X				
	input zone name in the zone management interface, at the same time check the terminals needed to be added to the zone and click "Save".	ID 4 Name Zone4				
	added to more than one zones.	Member[Batch add] Terminal4(4) × Terminal5(5) × Cancel OK				

2	Modify zone Double click the zone or click	Modify zone X
	[Modify] button to Modify its name, member.	ID
		1
		Name Zone1
		Zonei
		Member[Batch add]
		Terminal1(1) \times
		Cancel OK
3	Delete zone	(1) Sure to delete the selected zone?
	Click "delete" button to modify	
	and delete zone.	Cancel OK Sort Operation
		el 1 V A Edit Delete
4	Cross-server zone settings	
	Please add other servers'	Re Zone
	information in "Basic Settings"-	Local partition Cross server partition Add zone X
	"Multi-server".	+ Add
	Click "Cross-server Zone" and	ID
	click * to add zones, the zone name and member list can be	Name
	set. The cross-server zone	
	member display mode is server number+ terminal ID	Member Please select a terminal
	number.	Préose serect à terrimitai
		Cancel OK

The zone modification and delete opeartion same as

above mentioned.

User management

User management

User management can assign login accounts and use permissions to the different operators using the server.

Dashboard	🔓 User										
🕀 Terminal Status 🗸 🗸	User	Role management	Organizational management	External contact							
Schedule Task	+ Add										
③ Realtime Task		State		Username		Display		Role		Operation	
🖽 Media				admin	A	Iministrator		Administrator	Edit	Delete	
Record											
Report		•		device	Equipme	nt account number		Administrator		Delete	
S Video View				admin123		admin123		user	Edit	Delete	
Conference											
Basic Settings											
😡 Terminal											
盟 Zone											
ය User											
३१ Dial up manag											
द्धी Broadcast setti											
ភា Multi-server											
ේ Advanced v											
🖏 DevOps							_				
2022-10-24 13:58:07						ems, Total 3items < 🗌	1 >				
2022-10-24 13:58:07					V4.0.6_20221013_RELEAS	(STD)					

Add user/ Modify user/ delete user

NO.

Functions

1 Add user

Click the user addition button and set the user name, password (The password set at least 8 characters,must contain at least three types of combinations: uppercase letters, lowercase letters, special characters, and digits) and role name in the popup dialog box.

÷\$ Note: terminal authorization range default as all terminals and servers. If some terminal and server authority request, you can turn off "Apply to all terminals" and "Apply to all servers" buttons (open state: , close state:), and then choose the authorized terminals and servers in the member and server list.

Account lockout: After the account is locked, the user cannot log in and a message is displayed indicating that the account is locked.

Message alert: After enabled, the device goes online/alarms will be prompted in the lower

Add user		Х
Username	Password	
admin123	Password	
damini25		
Display	Role	
admin123	user	\sim
account Apply to	o all Apply to all	Message alert
lockout termin		Disable 🗸
Binding terminal		
Terminal4(4) × Terminal	5(5) ×	
department		
		~
Binding SIP gateway	Binding phone	e number
None	~	
Equipment account number	?	Cancel Save

Diagram

right corner of the page (you can choose the display time). When the device goes online or alarms are triggered, you can check whether the window pops up in the lower right corner.

Binding terminal: binding center microphone number settings, which is used for map control and video linkage.

Equipment account number: When the device need to get the informations of the server, need to input the account on the device to get the informations of the server . Usually , it is used for central microphone.

Department: User's department

Binding SIP gateway: binding SIP gateway and the number settings (Note: SIP gateway can be added in "Multi-Server" - "SIP Trunk").

2 Edit/Delete user

Edit user: Click [edit] button or double click a user to edit the user name password rights,etc.

Note: If the user forget the password, the administrator can modify the password through "Edit user".

Delete user: Click [delete] button to delete the user.



Role management

In the role management interface, you can customize roles and assign permissions to roles, and users can only access authorized modules. The red **×** indicates unauthorized, and the green **×** indicates authorized.

හි Dashboard	යි User																								
⊟ Terminal Status ∨	User	Role managemen	t Organiza	ational m	anagemer	nt Ext	ernal cor	tact																	
Schedule Task											双击可隐藏	腔白		Module p	permission	ıs									
③ Realtime Task							Termin	al Status			Sched	ule Ta								Basic S	Settings				
🗊 Media	+	Role	Role level	Da			Map	View	Scen	e View			Re	M	Re	Re	Co							A	A De
Record					Та	Gr	м	0	Sc	0	Str Pr	Pro						Те	Zo	Us	Tal	Br	M		
Report								0	50	0															
➢ Video View		Adminis	Adminis	~	~	~	~	~	~	~	×	~	~	~	~	~	~	~	~	~	~	~	~	~	~
ප Conference		user	Regular	~	~	~	~	~	~	~	~	×	~	~	~	×	×	×	×	×	×	×	×	×	×
診 Basic Settings へ																									
🕞 Terminal																									
器 Zone																									
යි. User																									
3∉ Dial up manag																									
র্বা Broadcast setti																									
品 Multi-server																									
@ Advanced v																									
🖏 DevOps														. 🗔											
2022-10-24 14:02:21													tal 2item	s < 1	>										
2022-10-24 14:02:21									V4.0.6	5_2022101	3_RELEA	SE(STD)													

Add role/Modify role/ delete role

NO. **Functions** Diagram 1 Add role Add role Х Click "+" button in add role, and then set the role name and Role Role level task permission in the pop-up User1 Regular user task bar; Self-built task: only view the Module permissions planned tasks of the user; Dashboard All tasks: view planned tasks of > 🔽 🗋 Terminal Status 👍 all users: > 🔄 Schedule Task 2 Module permissions: check the role owned module permissions; 🗅 Realtime Task Click "Save" to complete 🗀 Media settings. Record 🗅 Report 2 🗅 Video View > 📄 Conference 2 > 🔽 🗋 Basic Settings 👩 Advanced 🗅 DevOps

Cancel

Save

2 Modify/Delete role

Click the button — before the role to modify or delete its display name, password, permissions, and other relative information.

	Ordinary Users	Regular user	~	~	~	
Edit						
Delete						

Organization management

Set the department organization structure, press the [Add] button to add a directory.

🖄 Dashboard	ခို့ User								
🖨 Terminal Status 🛛 🗸	User	Role management	Organizational management	External contact					
Schedule Task	+ Add								
③ Realtime Task		Na	ame of a department			Parent business		Op	eration
🗊 Media			The head office			None		Edit	Delete
Record			Shanghai office			The head office		Edit	Delete
Report			Branch office			The head office		Edit	Delete
➢ Video View									
Conference									
Basic Settings ^									
🚭 Terminal									
器 Zone									
යි# User									
兆 Dial up manag									
इटी Broadcast setti									
品 Multi-server									
s [®] Advanced ∽									
ふ DevOps									
2022-10-24 14:12:34					V4.0.6_20221013_RELE	ASE(STD)			

External contact

External contacts are used for a specific device. Add a SIP gateway and bind a mobile phone number to an external contact so that one-touch calls can be made to the specified personnel on the device.

🔁 Dashboard	🖧 User							
🔒 Terminal Status 🗸 🗸	User	Role management	Organizational management	External contact				
Schedule Task	+ Add							
③ Realtime Task		Nam	e		SIP Gateway		Binding phone number	Operation
🗇 Media		5002	В		500		1800000000	Edit Delete
Record								
Report								
≽ Video View								
ප Conference								
Basic Settings								
🚭 Terminal								
器 Zone								
යි, User								
३६ Dial up manag								
द्ध Broadcast setti								
品 Multi-server								
e [®] Advanced ∨								
冬 DevOps								
2022-10-24 14:13:01					V4.0.6 20221013 REI	LEASE(STD)		

Dial up management

Ring groups

The function interface can be set in group call mode, click to add ringing group, set a grouping number (Note: the grouping number is ID number format, and can not be duplicated with other terminal ID), and set the group name and strategy(eg, ringing mode, can be set to simultaneous ringing or order ringing, order ringing are sorted according to the order in which the member list has selected), member list. When a terminal calls a group number that has been set, all terminals under this group number will ringing according to the set ringing mode. Once the terminal answered, other terminals will stop ringing.

හ Dashboard	ንዲ Dial up management			
🚍 Terminal Status 🛛 👻	Ring groups Quick dia	Add ×		
Schedule Task	+ Add			
③ Realtime Task	D	ID (Avoid conflict with terminal ID!)	/lember	Operation
🗇 Media		Name		
Record		Group20 Strategy		
🖹 Report		meanwhile V		
Se Video View		Member(Member count must more than 1) Terminal20(20) × Terminal21(21) ×		
a Conference				
龄 Basic Settings 🔺		Cancel Save		
🕞 Terminal				
Bå Zone				
යි User				
3≰ Dial up manag				
2022-10-24 14:15:58		V4.0.6_20221013_RELEASE(STD)		

Note:The member of the ring group must ≥2

Quick dial

User can set the quick dial number for the terminal, to make a quick call to the specified terminal by dial the quick dial number.

Quick dial setting: Click "+ add "button ,set the ID number in the dialog box that is displayed(Note:ID number cannot be the same as another terminal ID), name, type(Local server terminal: call the terminal within the server;Across server terminal:call the terminal across the server;Sip trunk:call to the external telephone), check the target terminal , then click "save".

Dashboard	3. E Dial up management
📾 Terminal Status 🗸 🗸	Ring groups Quick dialing Add X
Schedule Task	+ Add
() Realtime Task	ID (Avoid conflict with terminal ID!) ID Na 2 Target Handle
Media	Name The front desk
Record	Type
🗎 Report	Local server terminal V
	Member Terminal2(2)
Conference	
Basic Settings	Cancel OK
🛱 Terminal	
🗄 Zone	
a User	
2022-10-24 14:18:12	V4.0.6_20221013_RELEASE(STD)

Broadcast Setting

Examination room setting

The examination room setting is suitable for terminals with LED screens that display the name of the test room set in the test room setup.

On the examination room setting screen, press the [Add] button to add the test room. After the test room is added, when adding Scheduled task - information release, if you select the examination room release, you can select the added examination room in "Examination Room Setting". After the task runs, The LED screen of the terminal under this examination room will display the name of the examination room (for details, see [Scheduled Task] - [Add Operation] - [Information Release]).

Record	A Broadcast settings
Report	Examination room setting Add ×
⇔ Video View	+ Add Name
串 Conference	ID Examination 2 Operation
Basic Settings	Member Terminal2(2) × 2_Zone2 ×
🕞 Terminal	
Bå Zone	Cancel OK
යිං User	
淡 Dial up manag	
⊲ Broadcast setti	
品 Multi-server	
🕫 Advanced 🛛 🗸	
🖏 DevOps	
2022-10-24 14:19:59	V4.0.6_20221013_RELEASE(STD)

Multi-server

Add different type of server on the multi-server to realize across server communication. Note: External communication must be enabled for external communication. (Log in to the system account, under "Basic Settings" - "Network Settings" - "Exterior network mapping IP", you can enable external communication.)

Dashboard	뮮 Multi-server						
📾 Terminal Status 🛛 🗸	Multi-server SIP Trunk						
Schedule Task	+ Add				TemplateDownload Batch delete	Local server id O Refresh	⊥ Import ⊥ Export
③ Realtime Task	D	Name	IP	Port	Web URL	Context	Operation
🗇 Media	. 1	1	192.168.1.16	5080	http://192.168.1.16:80	Context	Edit Delete
Record							
Report							
S Video View							
a Conference							
Basic Settings							
🖨 Terminal							
B Zone							
යි User							
兆 Dial up manag							
न्द्री Broadcast setti							
备 Multi-server							
📽 Advanced 🗸 🗸							
్సి DevOps							
2022-10-24 14:21:29				t display1-1items, Total 1item	ns < [1] >		

1 Add server

The server interconnection should add both the server information and the server information of the interconnection, click "add" + Add to add server and to set ID, name, IP, Port (default is 5080).

Proxy enabled: The terminal under the local server whether to obtain the information about the configured server from the local server .Enabled to obtain from the local server , otherwise directly obtain from the peer server.

Internal call enabled: After enabled , the terminals under the local server can call the other terminal under this server by usign internal call mode ; Otherwise by using external call mode.

Import: Click	上 Import	button,

choose the server information table saved on the local server, the format of the table header must be as shown in the diagram on the right.

Add server			Х
ID			
1			
Name			
1			
IP			
192.168.1.26			
Port			
5080			
Web URL			
http v 192.168	.1.26:80		
Is open data?	Use Proxy?	Is it NAS server?	Is internal call?
			Cancel OK

A	В	С	D	E
serverid	servername	serverip	serverport	serverur1

2 Add SIP Trunk

If the system needs to make an external call, it should be configured accordingly.

Dial prefix: the prefix used to dial an outside phone;

Terminal number: ID number of the telephone gateway;

Type: select to access the SIP gateway (IP VOIP interface), SIP wireless gateway or SIP server (PBX)

Add	×
Name	
500	
Туре	
SIP Gateway	\vee
Prefix	
909	
ID	
11	
	Cancel OK

4.11 Advanced

Backup/Restore

Back up all terminal/zone/tasks/user's information. When the data is destroyed, the data can be restored by

the backup (for example, when the coverage is installed, the system parameter data will be modified, the user's data can be backed up before the coverage is installed, and the data will be covered after the installation is installed).

Click "Backup now" to backup data and save the file on the server automatically. Click "Restore" to restore the current data, support download. When needed, click "upload backup file" to restore the data.

Dashboard	😪 Backup & Restore						
📾 Terminal Status 🛛 🛩	Backup now L Upload backup file						
Schedule Task	Index	Backup name	Backup date	File size		Operation	
③ Realtime Task	1	1	2022-10-19 09:25:08	0.54M	Restore	Download	Delete
Media							
Record							
Report							
➢ Video View							
& Conference							
Basic Settings ~							
্রা° Advanced 🖍							
😂 Backup & Rest							
Device Upgrade Devic							
🛞 Language							
Extension							
③ Version							
ふ DevOps							
2022-10-24 14:24:29							
2022-10-24 14.24.29		V4.0.	6_20221013_RELEASE(STD)				

Device upgrade

Input the terminal type, Click "Upload firmware" button to upload the upgrade file to server, and the terminal will automatically obtain the update program from the server for firmware upgrading. (Note: only parts of terminals are ok)

🔁 Dashboard	全 Device Upgrade				
🖨 Terminal Status 🛛 👻	Type 🕹 Upload firmwa	re Upgrade log			
Schedule Task	Index	Туре	Version	File size	Operation
③ Realtime Task					
Media					
Record			No Data		
Report					
Se Video View					
a Conference					
Basic Settings ~					
📽 Advanced 🧄 🔺					
🛞 Backup & Rest					
② Device Upgrade					
🕲 Language					
Extension					
③ Version					
🗞 DevOps					
2022-10-24 14:25:02		V4.0	.6_20221013_RELEASE(STD)		

Language

Available for system language configuration, default language is Chinese, English, Russian, Spanish, Portuguese, French.

Dashboard	C Language	上 Upload file		
🚍 Terminal Status 🛛 🗸	ID Name			
Schedule Task	ID	Name		Operation
③ Realtime Task	zh	简体中文		Download Delete
 Media Record 	zh_fan	繁體中文		Download Delete
Report	en	English		Download Delete
Se Video View A Conference	russian	русский		Download Delete
 Basic Settings 	Spanish	Spanish		Download Delete
at Advanced	Portuguese	Portuguese		Download Delete
응 Backup & Rest ⓒ Device Upgrade	fr	Français		Download Delete
Service opgrude Service opgrude Service opgrude				
Extension				
③ Version				
心 DevOps				
2022-10-24 14:25:30			V4.0.6_20221013_RELEASE(STD)	

Extention

In the extended function, broadcast console, identity recognition and intelligent analysis can be opened by pressing the button a directly without license.

Video, map view/scene view, SIP device access and XC-APP access belong to additional modules, which can be used after authorized. Check the required module, click "Get application code", send the application code to the manufacturer, and then obtain authorization according to the license provided by the manufacturer.

Video view: including binding video real-time preview and event linkage automatic video popover. , Click the "download" button on the right to download and install video contro after authorizationl;(see "Video preview" for details)

Map view/scene view: map/scene mode to browsing information, positioning and mark on map/scene view, it can work with intercom, broadcast and other operations (see "Terminal status" - "Map view"/" Scene view "for details)

SIP device connection: defaul as 3-way SIP device access, 3000 channel can be accessed after authorisation.

APP Access: XC-APP default as access in. And it will be ok can be after authorization. Please input PIN code in "Basic Settings" - "Terminal management".



Version

Version information

Display server version, core server version etc, click "Restart Server" to restart server;

License

Please offer the machine code to acquire the license of official server from supplier. (The registration code is valid for 2 months and it is recommended to use a dongle to obtain authorization.)

Dashboard	(i) Version			
🚍 Terminal Status 🛛 🛩	Version		Restart Serve	er.
Schedule Task	Core Server: V4.0.6(20220916)	Conversion server: V2.7(20221010)	Application server: V4.0.6(20221013)	
③ Realtime Task	SDK App: V2.0(20220110)	System number: 9990001-9990999		
📾 Media	License		SystemLicens	е
Record	State: License	Allow count: 3000	Allow time: 2022-11-07	
🗈 Report	Machine code: C8CFC-8CFF8-8AFBF-FC6A5-0000	Register code: •••••		
S Video View				
ප Conference				
Basic Settings ~				
af Advanced A				
😹 Backup & Rest				
🚱 Language				
🖒 Extension				
③ Version				
ふ DevOps				
2022 10 21 11 27 01				
2022-10-24 14:27:01		V4.0.6_20221013_RELEASE(STD)		

4.12 DevOps

Device Self-inspection (Only some terminals support)

Add self-inspection task: Press "+ Add" button to add a new self-inspection task , the task name task type inspection type inspection terminal inspection time can be set on the displayed dialog. Aftert save to take effect , the terminal will perform the specified item inspection at the specified time. The device inspection type support video inspection, audio inspection, network inspection, button inspection .etc.

Manual self-inspection : Choose the corresponding self-inspection task , prss the "Manual self-inspection" button to check by manually.

🕸 Dashboard	کې DevOps
🚍 Terminal Status 🛛 🗸	Self test task Self inspection Add X
🗄 Schedule Task	+ Add
③ Realtime Task	Name Task type Second floor device test f test time Manual self test Operation
Media	Task type
Record	Once v
🖹 Report	Check the video ✓ Check the audio ✓ Check the network ✓ Check button ✓ Check anti disassembly ✓ Check finger
⇔ Video View	Check swipe card
Conference	Terminal Terminal2(2) × Terminal3(3) × Terminal4(4) ×
認 Basic Settings 🗸 🗸	Inspection time
📽 Advanced 🗸 🗸	2022-10-24 14:31:22
冬 DevOps	Cancel Save
	Current display0-0items, Total 0items < 1 >
2022-10-24 14:32:06	V4.0.6_20221013_RELEASE(STD)

Self-inspection records: Click Self-check Record to query device Self-inspection records, including terminal number, name, task name, check type, check time, and check result.

Ranking of self-inspection records : Click self-inspection record ranking to query the number of self-inspection failures and the last inspection time.

Analyze: Use diagram to show the device self-inspection failure data , failure type times, self-inspection ranking data.

🕸 Dashboard	炙 DevOps
🚍 Terminal Status 🗸 🗸	Self test task Self inspection record Ranking of self inspection records Analyze SD card configuration
Schedule Task	Please input number Q
() Realtime Task	ID Name Inspection type Last inspection time Inspection results
🗇 Media	
Record	
🖹 Report	No Data
Se Video View	
a Conference	
용 Basic Settings 🗸 🗸	
ଙ୍ଗ Advanced 🗸 🗸	
ි DevOps	
	Current display0-0items, Total Oitems < 1 >
2022-10-24 14:35:26	V4.0.6_20221013_RELEASE(STD)

SD card configuration

This command is used to upload or download audio files from the corresponding path on the device.

(1) File upload: First, select the corresponding terminal, and then select the type of file to be uploaded: remote broadcast control or short-circuit input 1, short-circuit input 2; Finally, press the "Upload File" button. The media library file list will pop up. Select the corresponding audio file and click "Save" to upload the file to the specified path on the device.

(2) File download: After selecting the corresponding terminal, file type, and file saving type, press the [query] button. The queried file can be displayed in the file list, and the corresponding file in the list can be downloaded.

හ Dashboard	炙 DevOps				
🚍 Terminal Status 🛛 🗸	Self test task Self ins	pection record Ranking of self in	nspection records Analyze	SD card configuration	
Schedule Task	ID	Туре	Save		
③ Realtime Task	Please select a terminal	V Remote Play	∨ SD	×	Search Upload file
	ID Name				Operation
Media					
Record					
Report					
➢ Video View			No Data		
ප Conference					
ቆ Basic Settings · ·					
s [®] Advanced ∽					
ి DevOps					
2022-10-24 14:35:01		V4.	0.6_20221013_RELEASE(STD)		

5. System Administrator Interface

The way to login system administrator interface to see "software login"-"system administrator login"(For

5.1 Basic Settings

Talk Settings

NAS Multiparty: Set whether to enable the multi-party call function. To enable the multi-party call function for NAS devices, you need to enable the multi-party call function for the corresponding terminal in the terminal Settings (in the intercom property Settings of [Basic Settings]-[Terminal Management], select Enable for multi-party call). (Note: Multi-party call function is only supported by some terminals.

Pitch shift: Default is disable . After enabled , the voice will be changed by pitch shift during communication. This function is supported under server transfer mode. The "Pitch shift" function of the corresponding terminal need to be enabled on the terminal settings.(In talk parameters of [Basic settings]-[Terminal management], "enable" the talk pitch shift).

Intercom duration: Set intercom duration. 0 indicates that intercom duration setting is disabled.

N Home	Talk settings Transport mode					
Basic settings ^						
Talk settings	Default	Save				
Broadcast settings	Talk settings					
Meeting settings	NAS Multiparty		Pitch shift		Intercom duration (unit: minutes, 0: not enabled)	
	Disable		Disable		0	
Network settings						
Advanced ~						
2022-10-24 14:37:06				V4.0.6 20221013 RELEASE(STD)		

Talk/Monitor transport mode: The default is "Transfer", can be set to "Direct".

Transfer: Talk/Monitor data can be transfered by server , for example terminal 1 transfer to server then transfer to terminal 2.

Direct: Talk/Monitor data can be transfered not by server , for example terminal 1 direct to terminal 2 , not go through terminal 2 .

N Home	Talk settings Transport mode				
Basic settings			_		
Talk settings	Default	Save			
Broadcast settings	Transport mode				
Meeting settings	Talk/Monitor transport mode		Talk/Monitor transport mode(Multi-server)		
Network settings	Transfer		Transfer		
Advanced					
Autonccu					
2022-10-24 14:39:11			V4.0.6_20221013_RELEAS	E(STD)	

PA settings General Settings

II Home	General configuration Task settings Transmission se	ettings			
Basic settings					
Talk settings	Default Save	Media Directory settin			
Broadcast settings	SIP prefix				
Meeting settings	Zone PA	Terminal PA			
	909	808			
Network settings	Broadcast optimization switch				
Advanced ~	Broadcast optimization mode				
	Old version				
	Old Version V				
	Soundcard Configuration				
	Select input	Input volume			
	×	· · · · · · · · · · · · · · · · · · ·			
		0 100			
	PA Cache size	Talk Cache size	MP3 Cache size		
	50	50	67		
	sound card optimization (Reference NAS-8500)	PASound card optimization parameters	Sound card optimization parameters-PA Interval	Sound card optimization parameters-PA Delay	
	Disable V	Standard \lor			
	File broadcast constant pressure backup	Broadcast media format			
	Disable V	WAV \vee			
	NAS broadcast settings				
	NASBroadcast tone	NASBroadcast fast retransmission			
	Enable	Disable			
	Media library format				
	Pull flow section	More stream	Mp3 automatic transcoding	Forced to WAV	
	Disable V	Disable V	Enable	Disable	
		V4.0.6 20221013 RELEASE(ST	D)		
	E			_	
NO.	Functions		Diagrar	n	

1 SIP prefix

Standard SIP devices access to this system, the prefix numbers are needed to use broadcast function.

Zone PA	Terminal PA
909	808

2 Broadcast optimization switch

Broadcast optimization mode: You can select old version mode or new version mode

3 Soundcard Configuration

When configuring the broadcast, the server sound card input mode (generally adopts stereo mixing), and the volume adjustment.

PA、Talk、MP3 Cache size: Sound card Cache Settings when it is collecting audio.

sound card optimization: sound card audio collection mode optimized (disabled by default).

PASound card optimization parameters:Select a sound card audio collection mode. Optional: Standard mode, speed mode, Custom mode.

Sound card optimization parameters-PA interval、delay: When th PASound card optimization parameters is set to Custom Mode, you can customize the audio collection interval and delay.

File broadcast constant pressure backup: Set whether to enable the scheduled task file broadcast constant pressure backup function.

Broadcast media format:The audio encoding format that the server sound card sends when it picks up audio. The audio encoding format supports WAV 22K(default) and MP3 44K.

4 NAS broadcast settings

NASBroadcast tone:When this function is enabled, the device plays a broadcast announcement when it initiates or receives a broadcast. This function applies only to NAS devices.

NASBroadcast fast retransmission: If the device does not enter the broadcast state when the broadcast starts, the server quickly reinitiates the broadcast.

Broadcast optimization switch

Broadcast optimization mode

Old version

Soundcard Configuration	
Select input	Input volume
V	0 100

PA Cache size	Talk Cache size	MP3 Cache size
50	50	67
sound card optim NAS-8500)	nization (Reference	PASound card optimization parameters
Disable	\vee	Standard V
	ion narameters_PA Interval	Sound card optimization parameters-PA Del
Sound card optimizat	ion parameters-FA interval	

File broadcast constant pressure backup

Disable

Broadcast media format

WAV

NASBroadcast settings NASBroadcast tone NASBroadcast fast retransmission Enable V

 \sim

5 Media library format

Multi-streaming : After enabled , when audio file uploading , ffmpeg will convert to different streaming file to the application server for broadcasting use.

Pull flow section : Reserved .

MP3 automatic transcoding: After enabled, the different bit rate MP3 files uploaded to the media library can be converted to qualified bit rate

Forced to WAV: After enabled ,the different format audio file can be forced converted to WAV format.

ull flow section		More stream	
Disable	V	Disable	~
Mp3 automatic transcoding		Forced to WAV	

6 Media Directory settings

You can modify the directory for storing media library files.

Note: This operation will cause the media library files in the original directory to be lost. Exercise caution when performing this operation.

General configuration	Task settings Tr	ansmission settings	
Default	Save	Media Dire	ctory s
Media Directory set	tings		Х
Media file list(eg. C:/IC	PAS/AppServer/Med	diaFiles)	
C:/ICPAS/AppServer			
C:/ICPAS/AppServer This operation will resu original directory, plea		2	

Task Settings

NO.	Functions		Diagram	
2022-10-26 10:56:41		V4.0.6_20221013_RELEASE(STI))	
	Task name \vee			
	Task display format			
	Terminal display settings			
	Disable	10 ~		
	Time limit (minute)	PA Priority(Min 0, Max 15)		
	Realtime Task			
	Disable			
	Run expired tasks at startup			
	Schedule Task			
	10			
	WebSip Real time shouting *1 (1-30)			
	10	1	40	0
Advanced	No level for scheduled tasks*1 (10-100)	Scheduled tasks have levels*15 (1-10)	Realtime Task*1 (10-100)	Number of wireless gateway network ports*1 (0-64)
Network settings	Task concurrency			
	After first V	Enable		
Meeting settings	Brother task	Task Auto Transmit		
Broadcast settings	Concurrent task processing			
Talk settings	Default Save			
Basic settings	General configuration lask settings maintainsion set	ungo		
🔥 Home	General configuration Task settings Transmission set	tting		

1 Task processing mode

Brother task: Conflicts occur when a terminal receives multiple tasks of the same level ,accept the "First-in"task or "After first"task.

Task auto transmit: After enabled, support the task auto transmit (For example, When a task is initiated, the device does not receive the task initiation command due to the network condition or other reasons. After the network is recovered, the device can receive the task again), this function only suit for NAS device.

2 Task concurrency

Schedule task: The schedule task include none level task and level task , the none level task support max 10 tasks concurrently run , 10-100 tasks can be set. The level task can concurrently run 1 channel for each level task(*15 refer to task level 1-15) , 1-10 tasks can be set.

Real-time task: The real-time task default support max 40 tasks concurrently run , 10-100 tasks can be set .

Nmuber of wireless gateway ports: When the wilreless gateway device in the system , the number consistent with the number of wireless gateway ports need to be add here.

WebSip Real time shouting *1 (1-30): Set the number of WebSip Real time shouting.

Note: The number of concurrent tasks cannot be lower than the default value.

3 Schedule task

Run expired task at startup : Default is disable.

Concurrent task processing	
Brother task	Task Auto Transmit
After first \vee	Enable \lor

No level for scheduled tasks*1 (10-100)	Scheduled tasks have levels*15 (1-10)
Realtime Task*1 (10-100)	Number of wireless gateway network ports*1 (0-64)
WebSip Real time s	shouting *1 (1-30)



4 Real-time task

Time limits: "Real-time task" time control as minute, and when it is disabled, it will play according to the actual time of the audio.

PA Priority: set priority for real-time task broadcasting, from lowest 0 to highest 15.

Realtime Task			
Time limit (minute)		PA Priority(Min 0, Max 15)	
Disable	\vee	10	\sim

5 Terminal display settings

When set the broadcast, the display format of the task queue is according to the task name display or file name display.

I Terminal display settings

Task display format

Task name

Transmission Settings

II \ Home	General configuration Task settings Transmission s	ettings	
Basic settings		_	
Talk settings	Default Save		
Broadcast settings	Broadcast multicast address		
	IP	Port	
Meeting settings	235.1.0	34567	
Network settings			
Advanced ~	PA send transport mode		
	Schedule Task	Realtime Task	NASBroadcast FS direct transmission switch
	Unicast v	Unicast \lor	Disable \vee
	Data Processing		
	MP3 data transmission mode	Mute before PA(s)	
	frame ~	Disable V	
	nune		
2022 10 26 11:01:10			
2022-10-26 11:01:18		V4.0.6_20221013_RELEASE(STD)))

No.

Functions

1 Broadcast mulitcast address

Set the multicast address and port .

Broadcast multicast address		
IP	Port	
235.1.0	34567	

Diagram

2 PA send trnsport mode

Schedule task: Set the schedule task transmission mode is unicast or multicast.

Real-time task: Set the real-time task transmission mode is unicast or multicsast.

NASBroadcast FS direct transmission switch: Set whether to enable broadcast delay optimization.

3 Data processing

MP3 data transmission mode : Frame or fixed length

Mute duration before PA: Before initiating file broadcast, the mute packet can be sent for a specified period to avoid packet loss in a poor network environment. The mute packet duration can be set to 1-5 seconds. Default is disabled.

PA send transport mode	e			
Schedule Task		Realtime Task	NASBroadcast FS direct t	ransmission switch
Unicast		Unicast	Disable	

Data Processing			
1P3 data transmission mode		Mute before PA(s)	
frame	\sim	Disable	\sim

Meeting Settings

Set the conference display mode $\$ video parameters .ect , set the parameters according to the operation environment .

IN Home	Conference Video parameters			
A Daris satting				
Basic settings	Default Save			
Talk settings	Default Save			
	Conference			
Broadcast settings			Contem	Deep line and sull analy
Meeting settings	Meeting screen display	Single route forwarding across servers	Custom	Drop line and pull again
	Melting screen V	Disable V	Disable	Disable
Network settings				
Advanced ~				
2022-10-26 11:06:56		V4.0.6 20221013 RELEASE(STD		
		14.0.0_LOLL1013_RELEASE(31L		
IN Home				
II \ Home	Conference Video parameters			
Home Basic settings				
Basic settings ^	Conference Video parameters Default Save			
 Basic settings Talk settings 	Default Save			
Basic settings ^	Default Save			
 Basic settings Talk settings Broadcast settings 	Default Save	Video bitstream	Video frame rate	Fixed frame loss of video fusion screen
 Basic settings Talk settings 	Default Save	Video bitstream 2mb V	Video frame rate 25 V	
 Basic settings Talk settings Broadcast settings 	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			
Basic settings Talk settings Broadcast settings Meeting settings Network settings	Default Save Video parameters Video resolution			

Network Settings

Ports and protocols

Port

The ports of the core server and application server can be set (Note: Do not change the port except in special cases).

Web agreement Select

Select a protocol for logging in to the WEB UI of the server. You can select HTTP, HTTPS, or HTTP and HTTPS.

The login method varies according to the selected protocol.

HTTP and HTTPS: The login mode supports HTTP or HTTPS.

HTTP only: Only Supports HTTP login.

HTTPS only: Only Supports HTTPS login.

The login method is as follows:

Enter http://server IP address: port in the address box of the web browser.

Enter https://server IP address: port in the address box of your web browser.

IN Home	Ports and protocols Binding network card White list settings							
Basic settings								
Talk settings	Default Save	Exterior network map						
Broadcast settings	Port							
Meeting settings	Core server	Application server	Application server(WebSocket)Port	Conversion server				
	5060,16000-20000	8888	9999	2048,1978				
Network settings	Web front end server	Other						
🖻 Advanced 🗸 🗸	80,443	8082,8021,5080						
	Web agreement Select							
	Web agreement Select							
	HTTP and HTTPS							
	nite and nites V							
2022-10-26 11:13:20		V4.0.6_20221013_RELEASE(\$1	D)					

When there have multiple network card , binding one of these network card use for IP network audio system software.

IN Home	Ports and protocols Binding network card White list settings
Basic settings	
Talk settings	Binding network card Save P
Broadcast settings	v
Meeting settings	
Network settings	
Advanced ~	
2022-10-26 11:16:00	V4.0.6 20221013 RELEASE(STD)

White List Settings

Press + button to add IP address (Delete: Input the IP, press - button to delete). After the save takes effect, only the IP addresses added to the whitelist are allowed to access the server(The default value is unlimited, that is, all IP addresses can access the server).

Security-policy White list settings

A content security policy, the whitelist of allowing access to third resources.

Access-Control-Allow-Origin Config

One security configuration, cross-domain configuration.

Yes: allows scripts with all domain names to access the resource.

No: Cross-domain access is not allowed (default value).

X-Frame-Options Config

Set whether to allow embedding to other sites.

N Home	Ports and protocols Binding network card White list settings
Basic settings	
Talk settings	Default Save
Broadcast settings	IP White list settings
-	IP White list settings (IP)
Meeting settings	
Network settings	
Advanced ~	•
	Security-policy White list settings
	Security-policy White list settings (agreement, IP-Port)
	- http V
	- nup · · · · · · ·
	Access-Control-Allow-Origin Config
	Allow cross domain access
	No
	X-Frame-Options Config
	Allow embedding to other sites Yes
2022-10-26 11:16:32	V4.0.6, 20221013, RELEASE(STD)

5.2 Advanced

Composite

Composite Parameters

Terminal No.

Set the terminal number digit and handshark detection time .

Note: The terminal number digit support max 7 digits.

Network adaptive

According to the actual network environment to set the parameters.

Data transmission

RTCP data transmission:Enable RTCP data sending for audio and video. The server disables RTCP by default. need to enable RTCP function (but disable FEC/RTX function) during WebSIP intercom.

RTP Transmission Optimization of UA:After this function is enabled, only file broadcast uses the timer to send data, and other modes directly forward data to reduce the delay.

N Home	Comprehensive parameters	Alarm management Auc	io and video parameters
Basic settings ~			
Advanced ^	Default	Save	
Composite	Teminal No.		
	Teminal No. digit(3)		Handshark detection time
Platform access	0 3		10 min v
Security manage	3	7	
Custom	Network adaptive		
System managem	FEC		RTX
	Disable		Disable v
Version	Data transmission		
	RTCP data transmission		RTP Transmission Optimization of UA
	Disable		Disable
2022-10-26 11:18:28			V4.0.6_20221013_RELEASE(STD)

Alarm management Alarm processing mode

NASRight key handler:Set the function of right-clicking the NAS panel with two buttons, that is, pressing the right button can make a call or alarm.

Terminal alarm detection:After this function is enabled, the server receives the alarm information uploaded by the terminal. If it is disabled, it will not receive.

NAS terminal call trigger alarm

Set whether to trigger the corresponding alarm input when the NAS terminal presses the left or right button to initiate a call.

N Home	Comprehensive parameters Alarm management Audio and video parameters	
Basic settings ~		
Advanced ^	Default Save	
Composite	Alarm processing mode	
Platform access	NASRight key handler Terminal alarm detection	
	Terminal call V Enable	
Security manage		
Custom	NAS terminal call trigger alarm	
System managem	NAS terminal left button trigger NAS terminal right click trigger	
	Disable V Disable	
Version		
2022-10-26 11:20:41	V4.0.6_i	20221013_RELEASE(STD)

Audio and Video parameters

Video parameters

Set the video encoding mode 、 encoding preset .

NAS terminal video advanced parameters

NAS terminal automatically binds environment RTSP video:After this function is enabled, you can bind external videos in terminal management. If this function is disabled, the binding is invalid.

Send video during NAS terminal Conference: After this function is enabled, the NAS terminal can send external videos bound to the terminal

Recording and video configuration

Configure whether to enable recording function and recording save path.

After enabled, the server can generate WAV format recording files for intercom, broadcast, listening and other contents between terminals and save them in the server.

User can independently set whether the recording function of Intercom, Conference, Broadcast enabled.

RTPKey frames such as video packet loss

Set whether to enable RTPKey frames such as video packet loss function.

H264 Profile to configure

Set video quality and other related parameters.

Codec Configuration

Default PCMU、PCMA、H264、L16, add according to the actual requirement .

Compreh	ensive parameters Alarm m	anagement Audio and video parameters
	Default	Save Codec configuration
N Home	Comprehensive parameters Alarm management	Audio and video parameters
Basic settings Advanced	Default Save	Codec configuration
Composite	Video parameters	
Platform access	Video encoder mode	Preset
	Hardware accelerate	veryfast \lor
Security manage	NAS terminal video advanced parameters	
Custom	NAS terminal automatically binds environment RTSP	Send video during NAS terminal Conference
System managem	Disable	Disable
Version	Disable	
	Recording and video configuration Disab	
	Save path C:/ICPAS/CoreServer/Alias_Recordings	
	Talk Conference PA	Video
		transcode
	RTPKey frames such as video packet loss	
	RTP Key frames such as video packet lossConfig	
	Disable	
	H264 Profile to configure	
	profile Config	level Config
	Disable	
2022-10-26 11:22:12		V4.0.6 20221013 RELEASE(STD)

Platform access

Business Server

NAS binding server

Enable and set the IP address, port number, and audio data type of the NAS server. Save the Settings and restart the server for the Settings to take effect. This server obtains all terminal logins of the NAS server. .

AI Record Server

Enable this function and set the IP address and port (for example, 192.168.1.33:85) of the record server, the record server obtains recording and video data from the local server.

Media Stream ServerDisab

Reserved.

Audio and video push configuration

Audio/Video push switch: Set whether to enable audio/video push function. After this function is enabled, the audio and video of the intercom can be pushed to the third-party platform.

Audio/Video push client IP, port: The IP address and port of the third-party platform.

IN Home	Business Server HTTP access Compatible mode					
Basic settings ~						
Advanced ^	Save					
Composite	NAS binding server Disable V					
Platform access	+ IP Port	Audio format Operation				
Security manage						
Custom						
System managem	No	Data				
Version						
	Al Record Server Disaste URL(eg. 192.168.1.13.85) Media Stream Server Disaste URL(eg. rtmp://192.168.1.13/live) Audio and video push configuration					
	Audio push switch	Audio push client IP	Audio push client port	Video push switch		
	Disable \vee			Disable		
	Video push client IP: port (this configuration can be separated by multiple English commas)	Video push client port 5051				
2022-10-26 11:25:53		V4.0.6_20221013_RELEASE(STI))			

HTTP access

	<u> </u>					
II Home	Business Server	HTTP access	Compatible mode			
 Basic settings ~ 	+ Add					
Advanced ^			HTTP Url		State	Operation
Composite						
Platform access						
Security manage						
Custom					No Data	
System managem						
Version						
				Current display0-0i	ems, Total Oitems < 1 >	
2022-10-26 11:31:22				V4.0.6_20221013_RELEAS	(STD)	

The third-party access platform uses the Http interface access mode.

Compatible mode

The third-party access platform uses the original Internal communication access mode.

N Home	Business Server	HTTP access	Compatible mode			
 Basic settings ~ 	+ Add	🏟 Config				
Advanced ^			IP		Port	Operation
Composite						
Platform access						
Security manage						
Custom					No Data	
System managem						
Version						
				Current display0-0	litems, Total Oitems < 1 >	
2022-10-26 11:31:43				V4.0.6_20221013_RELEA	SE(STD)	

Security Management

Session management

Token authentication on

Token detection, Token timeout:

After TOKEN detection is enabled, the server authenticates the identity of the requester. If TOKEN detection times out, the requester needs to log in to the server again.

(Note: You are advised to enable TOKEN detection. Disabling TOKEN detection may cause risks.)

HTTP connection detection、HTTP response detection:

Whether to enable the HTTP connection and response detection function. If there is no HTTP connection, or response, the requester needs to log in to the server again.

IN Home	session management safeguard	Password settings	Key management				
Basic settings ~							
Advanced ^	Default	Save					
Composite	Token authentication on						
Platform access	Token detection		Token timeout		HTTP connection detection	HTTP response detection	
	Disable		24 Smallhour		Disable	Disable	
Security manage							
Custom							
System managem							
Version							
2022-10-26 11:32:07				V4.0.6_20221013_RELEASE(STD)	1		

Safeguard

Password management

Password validity:

After TOKEN authentication is enabled, the server will force you to change the login password when it is reach to the password validity period.

Can the account and password be the same:

Set whether the account and password can be the same.

Password strength verification:

If No is selected, you can set any type of password.

If Yes is selected, the password must contain at least three combinations of uppercase letters, lowercase letters, digits, and special characters and must be at least eight characters in length.

IN Home	session management safeguard Password settings Key management
Basic settings ~	Default Save
Advanced A	
Composite	Password management [takes effect after token authentication is enabled]
Platform access	Password validity Can the account and password be the same Password strength verification 90Day No V
Security manage	900ay V NO V NO V
Custom	
System managem	
Version	
2022-10-26 11:32:29	V4.0.6_20221013_RELEASE(STD)

Password Settings

Project password

If the project password function is authorized in the dongle, you can change the password here. (Maximum 8 digits, maximum number of modifications 10 times)

Note: This password is required when adding or deleting a terminal. Enable authorization in the dongle.

System password

Password:

Change the passwords of all terminals on the server . After the passwords take effect, the default passwords of all terminals are the same. The terminal whose password has been changed still uses the new password.

ESLPassword:

Password for information exchange between the terminal and the server (do not change it at will).

IN Home	session management safeguard	Password settings	Key management				
 Basic settings 	Default	Save					
Advanced ^							
Composite	Project password Edit						
Platform access	Original		New password	Confirm			
Security manage		ø		ø	g	5	
Custom	System password						
System managem	Password		ESLPassword				
Version		ø		ø			
2022-10-26 11:36:21			V4.0.6_2022	1013_RELEASE(STD)			

Key Management

Key Management

Click to upload the nignx certification .

Sip Secret Key

Set the SIP secret key , the length of the key should be 32 characters .

N Home	session management safeguard Password settings Key management
 Basic settings ~ 	Key management
Advanced A	. L. Upload nginx certificate
Composite	SIPSecret key Edit
Platform access	SIPSecret key
Security manage	ø
System managem	
Version	
2022-10-26 11:36:43	V4.0.6.20221012 RELEASE(CTD)

Custom

Personalization

Title Config

Customize software title , for example: XX school , the title will appear on the upper software after save .Click the title to display the interface function keys

Home page setting

Set the page displayed on the home page when login to the service software. For example, if the home page is set to List View, the list View screen is displayed after a user enters the account and password to login to the service software.

Layout setting

After enabled, the terminal which has call panel to login server can display the detail panel information.

View mode

The partitioned display mode can be set .

IN Home	Personalization Third party docking
Basic settings ~	
Advanced 🔺	Save
Composite	TitleConfig
Platform access	Title
Security manage	
	I Home page setting
Custom	Home page setting
System managem	Dashboard v
Version	Layout setting
	Layout secury
	Disable v
	View mode Partitioned display mode
	Zone V
2022-10-26 11:37:13	V4.0.6_20221013_RELEASE(STD)

Third party docking

SSO

Set the login mode and HTTP path of the server.

RJ single sign on

IP address and key of the third-party system (used for interconnecting with the third-party system).

Smart street lamp platform single sign on

The IP address, port, client ID, key, and redirection address of the connected Smart street light platform (used for connecting to the Smart Street light platform).

Third party platform jump (general)

The name, address of Third-party platform(used when connecting to a third-party platform).

SDK filtering (HTTP access mode and compatibility mode)

The SDK only sends messages for the relevant terminal and its enabled configuration.

Terminal number

Enter the terminal number that the SDK needs to send messages to.

Talk、PA、Alarm filter

Enable, the intercom/broadcast/alarm message of the set terminal can be sent out through the SDK;

After disabled, the intercom/broadcast/alarm messages of the set terminal will not be sent out through the SDK.

IN Home	Personalization Third party docking				
Basic settings ~					
Advanced	Save				
Composite	I SSO				
	Туре	HTTP Url			
Platform access	SSO_STD V				
Security manage					
Custom	RJ single sign on				
System managem	Third party system IP address	Third party key			
Version	Smart street lamp platform single sign on				
	IP	Port	client ID	secret key	
	Redirect address				
	Third party platform jump (general)				
	Third party platform name	Third party platform address	Third party platform login		
			nothing \vee		
		the second of			
	SDK filtering (HTTP access mode and compatibil				
	Terminal number (for example: - 1-2-3 -, all: *)	Talk filter	PA filter	Alarm filter	
		Disable	Disable	Disable	
2022-10-26 11:45:59	11:45:59 V4.0.5 20221013 RELEASE(STD)				

System Management

Advanced Management

Time switch machine

You can set the server timing switch, For example, the server can be automatically shut down at night and automatically turned on in the morning.

Auto Power Off

Turn on the timed shutdown switch on the right side to set the shutdown time of the computer

Auto Power on

Click [configuration] to open the help document and set the automatic startup time as prompted

Serial SMS

Supports the SMS module.

Log Level

Set the server log level , that is ,the detail situation of the log recording.

Shelf Life

Set the shelf life of terminal operation \log_{τ} recording, TTS audio file, the log and recording support to save permanently.

Server Data refresh interval

You can set the server data refresh interval.

N Home	Advanced parameters System log			
 Basic settings ~ 				
Advanced	Default Save			
Composite	Time switch machine			
Platform access	Auto Power Off 00:00 O Config			
Security manage	Config	guration		
Custom	Serial SMS	Send content	Receive the number(split with ,)	
System managem		Terminal call	Receive the humber(spin with ,)	
Version				
	l log level	Care service law level		Application conversion (see the form 5 - 10014)
	Convert server log level	Core server log level	Application server log level Edit	Application server log size (taken from 5 - 100M) Edit
	operate v	operate 🗸	operate \lor	10
	Shelf life (days)			
	Log	Record	TTS voice file	
	30 ~	5 ~	30 ~	
	Server Data refresh interval			
	Server Data refresh interval (Company min)			
	3			
2022-10-26 11:46:44		V4.0.6 20221013 RELEASE(ST	D)	

System Log

Support to view the operation log of Application Server 、 Core Server、 Web Server	Support to view	the operation	log of Application	Server 🕔	Core Server	Web Serve
---	-----------------	---------------	--------------------	----------	-------------	-----------

N Home	Advanced parameters System log		
Basic settings v			
Advanced ^	Application server log 1 V		
Composite	Index	File name	Handle
Platform access	1	20221025.log	Download
Security manage Custom	2	20221026.log	Download
System managem			
Version			
2022-10-26 11:47:22		V4.0.6_20221013_RELEASE(STD)	

Version

Version Information

Display the version of the system software 、 Core server informations , press "Restart server" to restart the software, the software version can be switched , the available server versions are broadcast version, intercom version, and universal version ,users can switch to different server versions according to the industry in which they work. The direct function modules of different server versions are slightly different.

License

Please send the machine code to the manufacturer and then ask for the registration code to obtain the use of the official server software. (Registration code valid for 2 months, it is recommended to use a dongle to obtain authorization)

N Home					
	Version			Version switching	Restart Server
 Basic settings ~ 	Core Server: V4.0.6(20220916)	Conversion server: V2.7(20221010)	Application server: V4.0.6(20221013)		
Advanced A	SDK App: V2.0(20220110)	System number: 9990001-9990999			
Composite					
	License				
Platform access	State: License	Allow count: 3000	Allow time: 2022-11-07		
Security manage	Machine code: C8CFC-8CFF8-8AFBF-FC6A5-0000	Register code: sHmQTXusqb9Yw3mDł			
System managem					
System managem					
Version					
2022-10-26 11:47:46					

6. FAQ

Fault phenomenon	Fault reasons & exclude
Why all terminals can't login?	1. The firewall will prevent the server software access to the network by default, and it result in the server can't work normally. Therefore it's required to turn off the firewall or add the server software program is out of firewall prevent list.
	2. The server IP address and the terminal set [server IP] is different.
	3. The server is closed.
	4. Check whether the SIP key configured on the device is consistent with that configured on the server
Why some terminals can`t login?	1. Under the cross-network, the terminal haven`t set the gateway properly.
	2. Network does not work, we suggest using ping command test. The objective testing method is using the terminal connected cable insert to a computer (and set the terminal IP address), then Ping command to test connectivity on the server.
	3. Please use administrator to run the server.

TOA Corporation