

SPON

IP PA / INTERCOM SOFTWARE PACKAGE

User Manual



IP INTERCOM & PA SYSTEM

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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 integrates the computer network, intercommunication and public address without separate wiring to each interface.

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 List

Function	Sub-function	Description
Talking	● Two-way hands-free call	When the call is connected, the call is made in hands-free mode immediately, with full-duplex and echo cancellation.
	● Two-way earphone call	Connect an external earphone to talk in high noise environment or don't want to influence others.
Call	● Single button call	A quick call to a target terminal; every terminal can set a independent target.
	● Number buttons call	Through numerical buttons to randomly call any terminals.
	● Call ringtone	With such tones of "call busy" and "hang up" can be set up(only supportive by the terminals with a SD card).
Call Answer	● Auto answer	The automatic answer can be set on the terminal at 1 time after the ring.
	● Manual answer	he ring continues on the terminal until there is a manual answer.
Call Transfer	● Busy line transfer	The call can be automatically transferred to another terminal if the target line is busy.
	● Power Transfer off	If the target is powered off or out of connection, the call will be automatically transferred.
	● No answer transfer	If the call has not been answered in a specified times of ring tones, it will be automatically transferred.

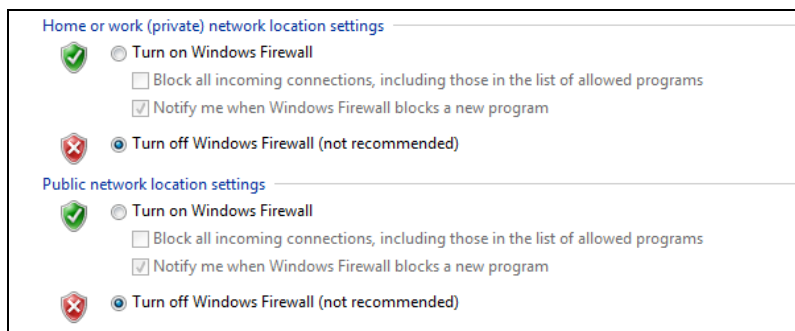
	<ul style="list-style-type: none"> ● Manual transfer ● Breakdown call ● Caller ID Display ● Incoming call playing 	<p>Received call can be manual transfer to anyone terminal, and end the present call.</p> <p>The administrator can abruptly break down an ongoing call.</p> <p>To display the caller's ID and review the missed calls and incoming calls; Support Chinese and English.</p> <p>Automatically playing the incoming call terminal name through the internally loudspeaker.</p>
Broadcast		Broadcast to a single or multiple zones via IP network paging microphone. The server software can remotely adjust the volume of each terminal
Emergency broadcast		Play the pre-recorded Voice message to a specified terminal through IP paging microphone.(Multiple Voice messages are optional).
Monitoring		The terminal that built-in microphone can monitor the sound conditions around the terminal in the main control room.
BGM		The loudspeakers of the terminal can play background music and the music will stop during conversation; live broadcast, timing broadcast, trigger broadcast are available.
External control		The terminal short circuit output can control the electrical door lock; The terminal short circuit input can connect the external red emergency button.
Digital record		The system can automatically record the data of conversation and store on the server.
Hubbub alarm		If it has detected a screaming or a tumult, the terminal will automatically deliver the alarm to the center service software.
Extension Interface	<ul style="list-style-type: none"> ● Integrate wireless intercom ● Integrate wireless intercom ● Integrate fire/PA system ● Linkage CCTV 	<p>Through the linkage between the IP wireless intercom base station and the 400 wireless intercom system, the wired user can join in the wireless users' group freely and make a half-duplex(PTT mode) conversation with them.</p> <p>Integrated with fixed phone: Connected with IP telephone PBX can make two-way conversation (with voice prompts);The fixed telephone can broadcast to the intercom system (including the partitions and all zones); Integrated with the VOIP telephone: Inter-working with VOIP phone. It's compatible with SIP protocol and VOIP system;</p> <p>To be comprehensively compatible with IP PA system with the function of timing and live broadcast.</p> <p>To broadcast through the PA system with the pre-programming information according to the alarms from the firefighting center.</p> <p>We can offer SDK secondary develop package, the call switch can be controlled by CCTV or the monitor screen can be automatically switched during talking.</p>
Scale application	Cluster server (for the large scale use)	To adopt multi servers to manage terminals to reduce the risk of the malfunction of the network; serving for the inter-provincial applications over a large scale where as much as 100000pcs terminals is used at one time (a cluster of 100 pieces of servers with 1000 pieces of terminals loaded on each server).

- **Single server**
(for medium scale) To manage all the terminals, and its application scale is up to 1000 pieces of terminals. (each server can load 1000 terminals)
- **Without server** Be independent from the server to make the basic communication; Assist some independent zone to take emergency measures when its connection to the server breaks down; Its application scale is up to 100 pieces of terminals.(**small scale**)

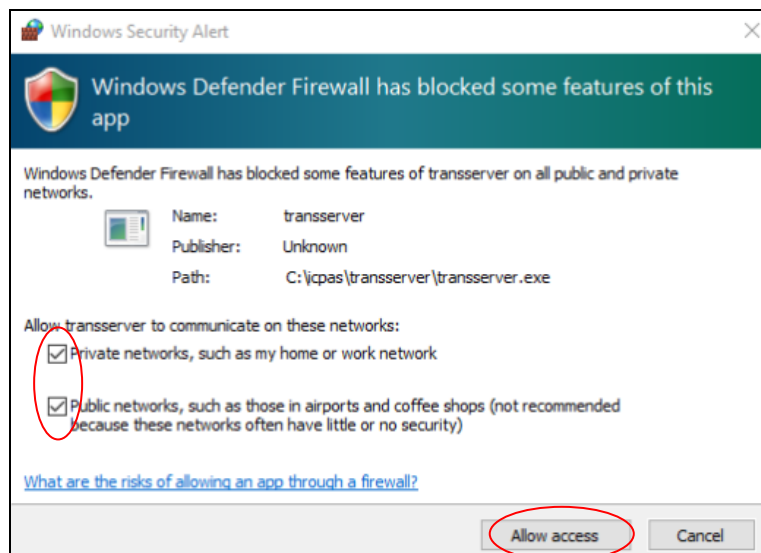
Note: all above functions need to complete with the appropriate model terminal.

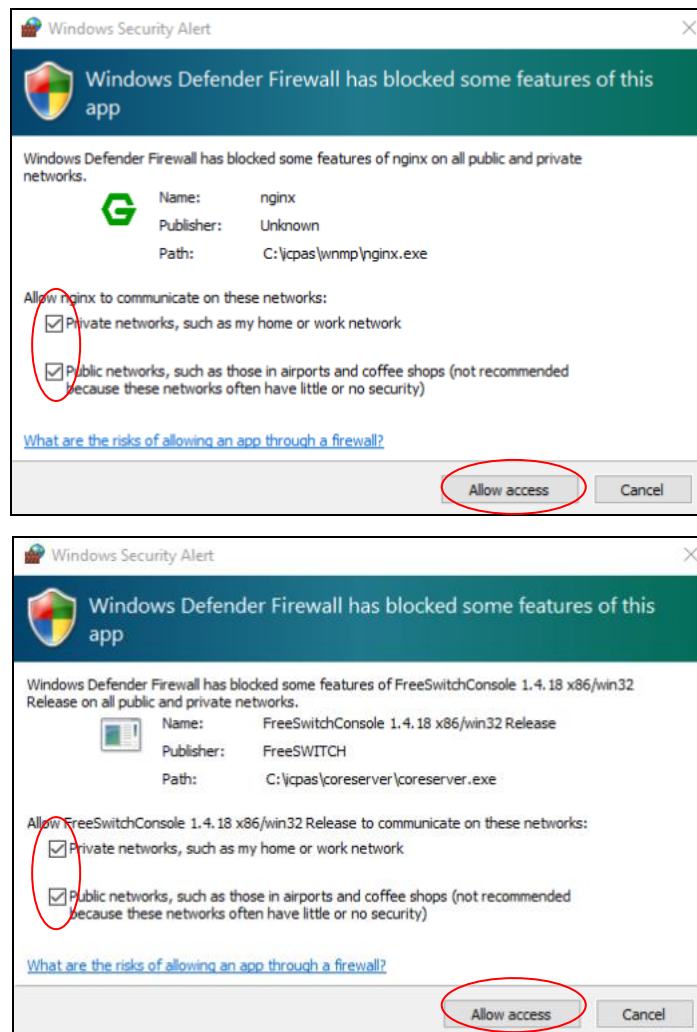
Software Installation

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]






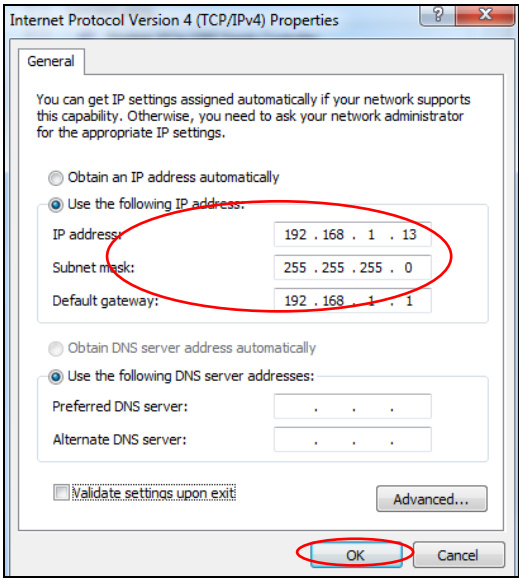
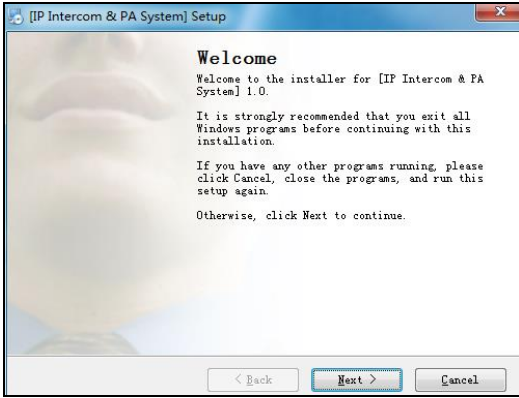
Operate Environment

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

Installation Steps

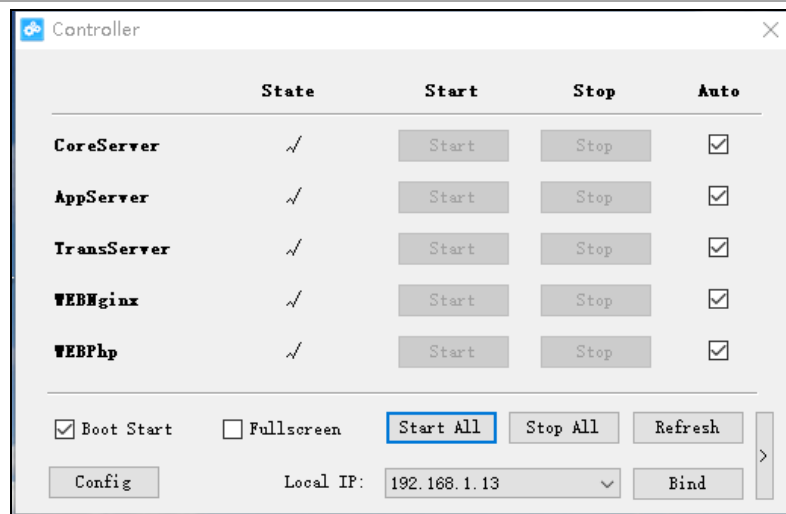
This software supports Windows 7 (including) above operating system(recommend Windows 10), and not supports Window XP operating system.

Install Sever Software

Step	Operation	Diagram
1	Confirm the computer has 100/1000M network card and the drive program is correctly installed.	
2	<p>In the TCP/IP settings of network can be set to automatically get the IP address.</p> <p> Note: if the network didn't set DHCP service, please consult the network manager to get the available fixed IP.</p>	
3	<p>Put the system installation disk, in disk:/Setup/Catalogue, double click software program to pop up welcome interface, then click the NEXT.</p> <p>Choose the installation path, click the NEXT till the installation is finished and the icon shows on the desktop.</p>	
4	Right click the shortcut icon, and choose" attribute"->"compatibility", click the "run as administrator.	

Software Operation

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"

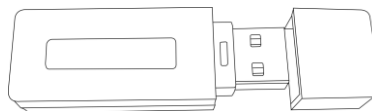
Note: 1) when server starts normally, the status bar displays ✓. If displays ✕, please click "Stop All" to stop all servers, and then click "Config" to check whether the server port is occupied or not.

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).

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.

The 'License' window contains the following fields and a button:

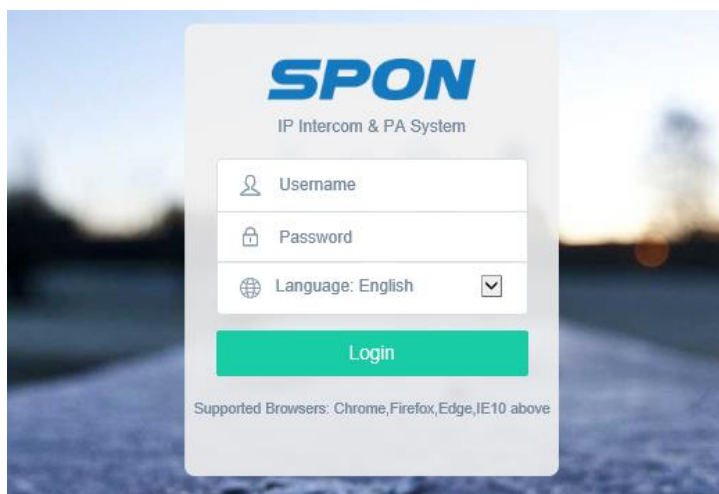
- State: Unregistered
- Allow count: 3
- Allow time: 9999-12-31
- Machine code: FBFFF-BFFAA-ADC&A-852C1-0000
- Register code: (empty field)
- License button (green)

Note: the server must be registered before normal operation.

Server Software Operation Description

Software Login

Input the IP address in the browser and input the user name and password in the login window(defaults is admin), click "LOGIN" to enter the server web page.

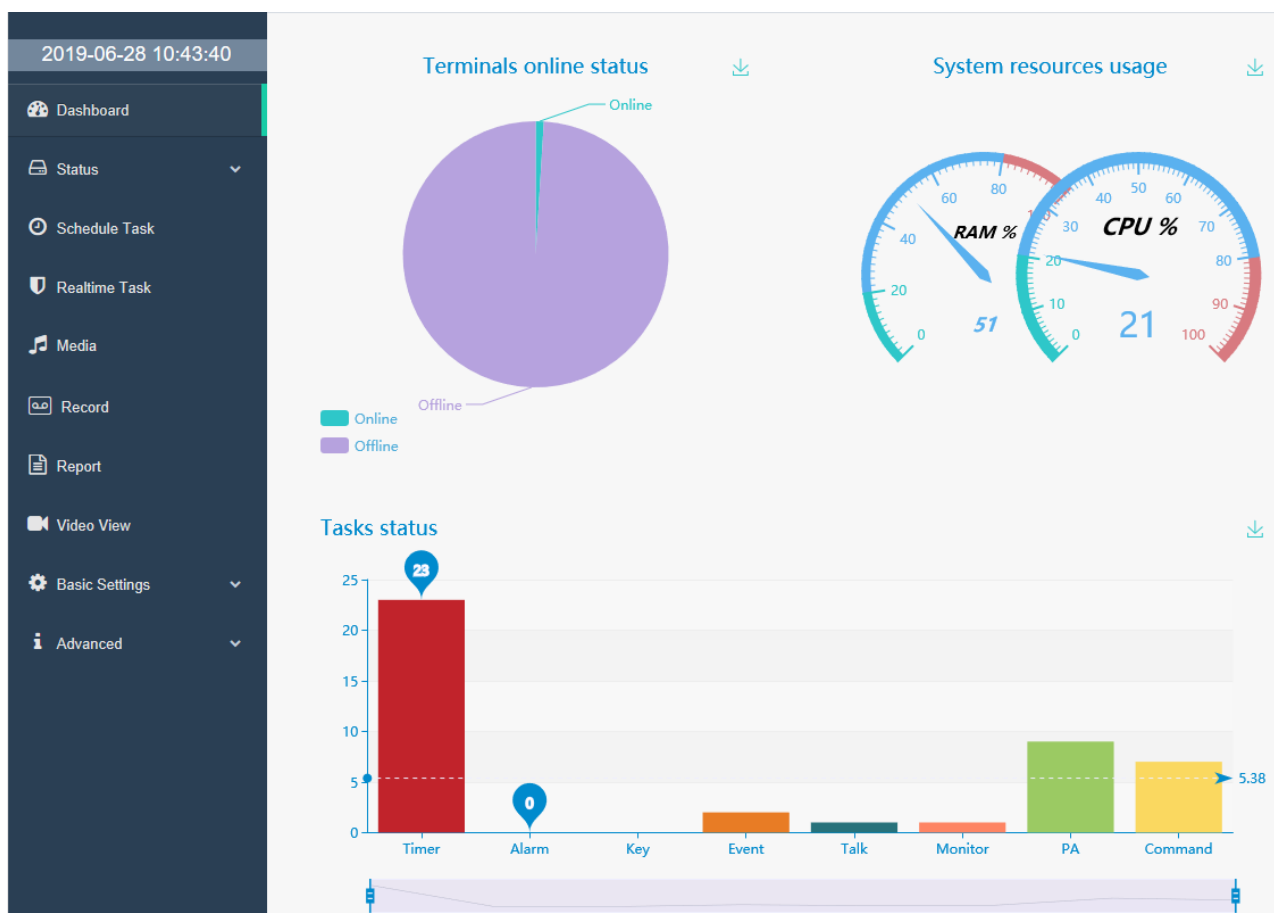


Note: if login web page is abnormal may be caused by a low version browser, please change the browser or upgrade the version.

Overview

The main interface presents the following contents after logging in server successfully

- 1) Terminal online status: count up the data of the online and offline terminals.
- 2) Schedule task: count up the task quantity of the timing (Timer), alarm(Alarm) and button pressed (Key) in the current planning tasks.
- 3) System resource usage: To display server resources usage in real-time.



Terminal Status

The “Status” shows terminal view mode, which supports table view, grid view, map view, and scene view.

(Note: map and scene view for additional option, it will be available after authorization. Please choose module and input license code in “Advanced”-“Extension”, otherwise the module can not be displayed on status bar).

Table View

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.)

State	ID	Type	Name	IP	Local IP	Task	Volume
Online	1	NAS	Terminal1	192.168.1.13	192.168.1.20:2046	Idle	
Online	2	XC	Terminal2	192.168.1.111	192.168.1.111:5060	Idle	
Offline	3	-	Terminal3	0.0.0.0	0.0.0.0	Idle	
Offline	4	-	Terminal4	0.0.0.0	0.0.0.0	Idle	
Offline	5	-	Terminal5	0.0.0.0	0.0.0.0	Idle	
Offline	6	-	Terminal6	0.0.0.0	0.0.0.0	Idle	
Offline	7	-	Terminal7	0.0.0.0	0.0.0.0	Idle	
Offline	8	-	Terminal8	0.0.0.0	0.0.0.0	Idle	
Offline	9	-	Terminal9	0.0.0.0	0.0.0.0	Idle	
Offline	10	-	Terminal10	0.0.0.0	0.0.0.0	Idle	
Offline	11	-	Terminal11	0.0.0.0	0.0.0.0	Idle	
Offline	12	-	Terminal12	0.0.0.0	0.0.0.0	Idle	
Offline	13	-	Terminal13	0.0.0.0	0.0.0.0	Idle	
Offline	14	-	Terminal14	0.0.0.0	0.0.0.0	Idle	

Terminal Volume Settings

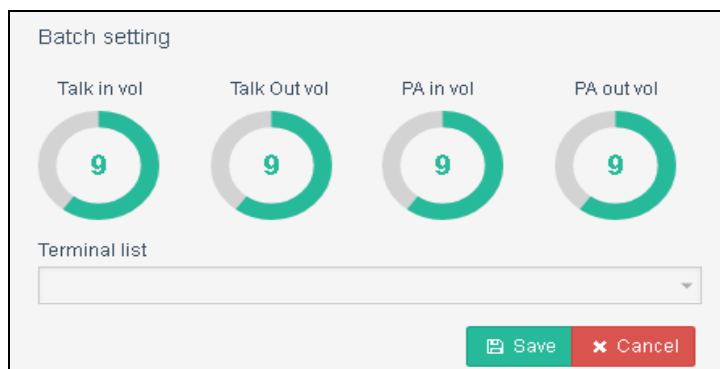
- Broadcast output volume can be set as double click the terminal or volume, click the circle icon to increase/decrease volume. It will be effective after clicked “Save” in the next time. The task can be performed in this time only if click “Cancel” and the next time will not.

Note: turn on the “Advanced Setting” to set the intercom input and output volume, and the broadcast input and output volume.

2 Batch Setting

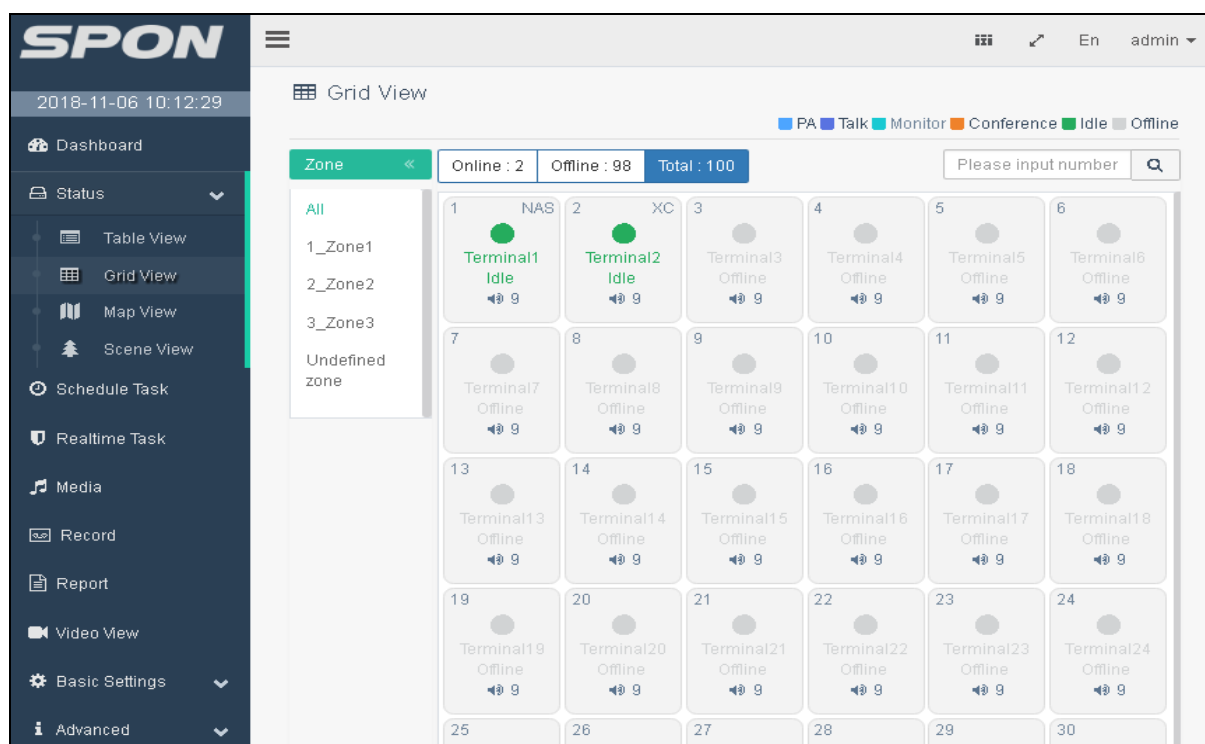
Click “Batch Setting”, and choose the target terminal in the list, then click the icon for volume settings.


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



Grid View

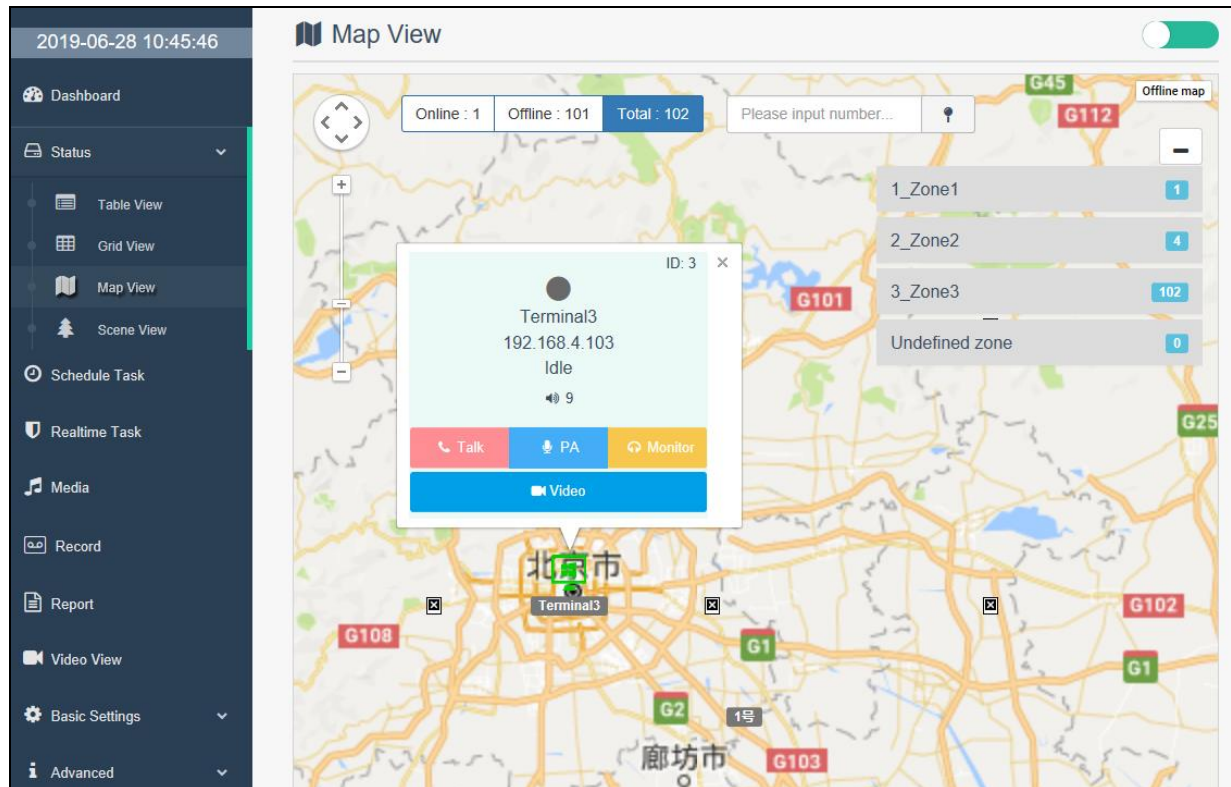
The interface displays in grid and the grid view can show the zone list, terminal login status (online, offline) and task status (such as intercom, broadcast and Idle etc.)





- Terminal volume adjustment
- Double click one terminal or click  8 icon to set broadcast and intercom volume, the set way same as the above.

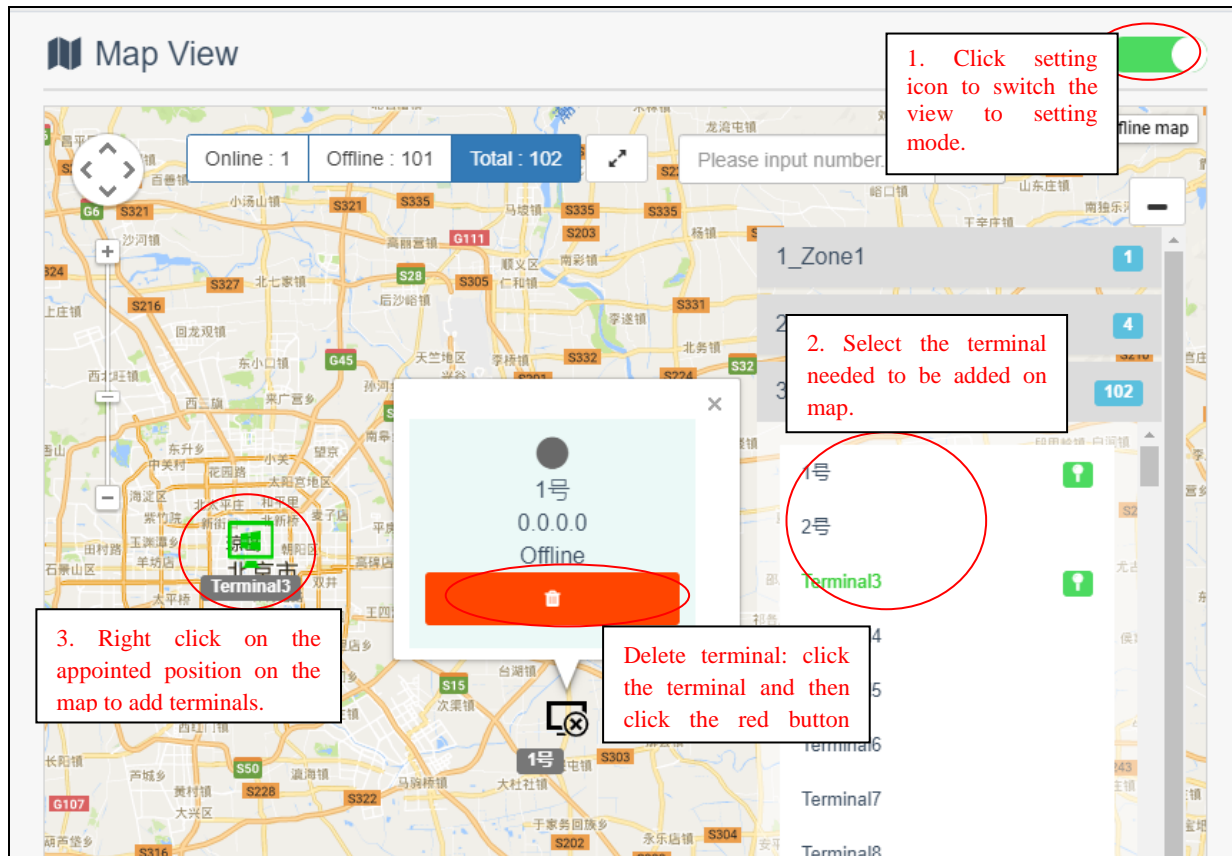
Map View

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	Click setting icon  at the right upper corner to switch the view to setting mode.
2	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.
3	Right click on the appointed position on the map to add terminals.
4	After marking terminal position on map, please click  icon at the right upper corner to turn off setting mode.



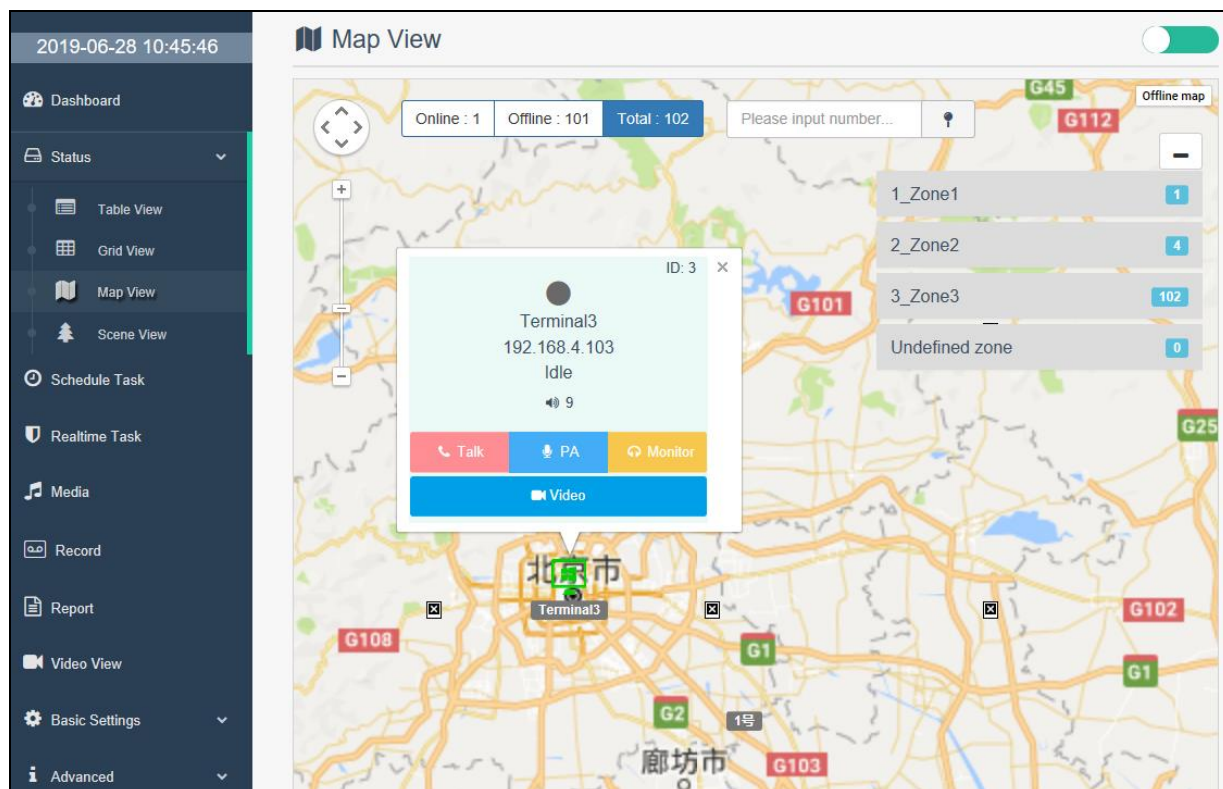
Note: 1) Move marked terminal position: right click appointed position on map directly after selecting the terminal in the terminal list.

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.

Add user

Username: Password:

Display: Role:

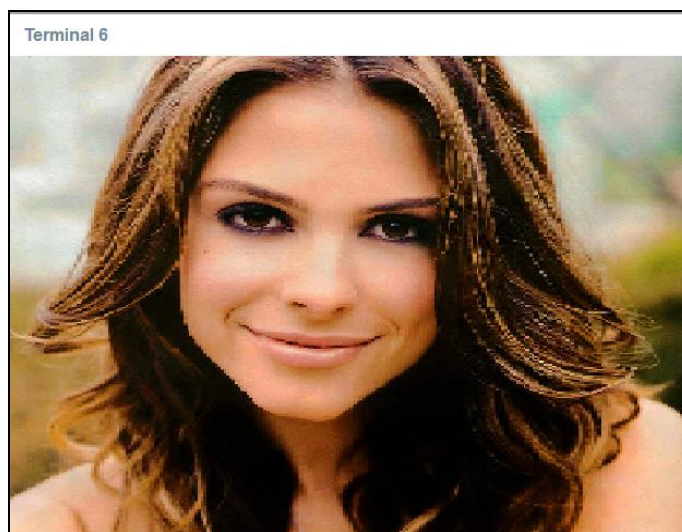
Apply to all terminals: ☒ Apply to all servers: ☒

Bind terminal:

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.

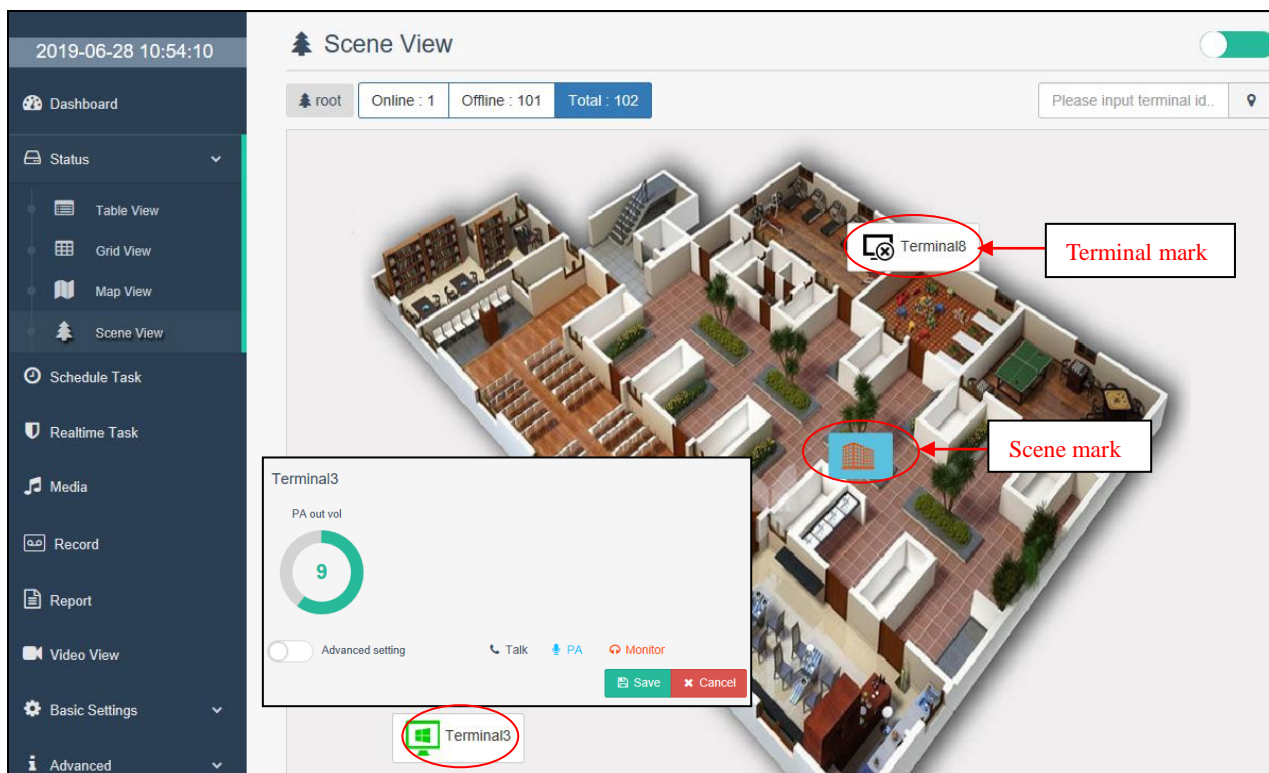


Scene View



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)



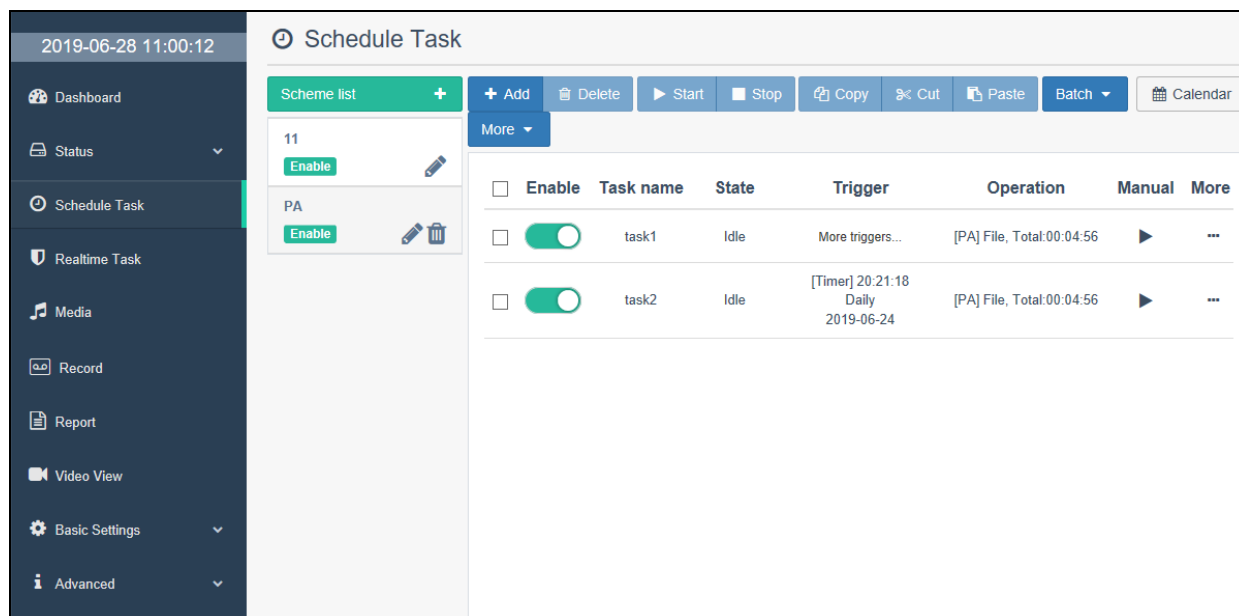
Self-defined scene mode

Step	Description
1	Click the settings icon  at the right upper corner to switch scene to setting mode;
2	Click “+” button to add scene pictures. It can add more scene pictures as the request.
3	Right click on the appointed location to add the mark as the terminal or scene picture as the request.
4	Once the scene mark has been added, click the right upper button  to turn off the setting mode.




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:



Add Scheme

Add scheme

Click the scheme list  to add the scheme. On the pop-up task window to set the scheme name and execution time.

Note: click the icon  under the date to quickly set the time as current time

Add Scheme


Scheme name

Enable
☒

Enable or not at a fixed date?
☐

Add Task

Add Task

Click to add the task icon , 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.

It will be effective after saving settings.

Add task

Task name

Creator

Trigger	Context	Edit	Delete

Operation	Context	Sort	Edit	Delete

Add trigger

No.	Functions	Diagram
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1 Add trigger: Timer

Timing task is to execute task at the appointed time.

After setting the execute time, schedule, start and end date, and save. It will automatically run at the appointed time.

Note: the start date must be within the start date range in the scheme.

Batch addition (trigger)

Timing task can work with batch addition.

Task cycle can work with daily/weekly/time;

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.

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.

[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.

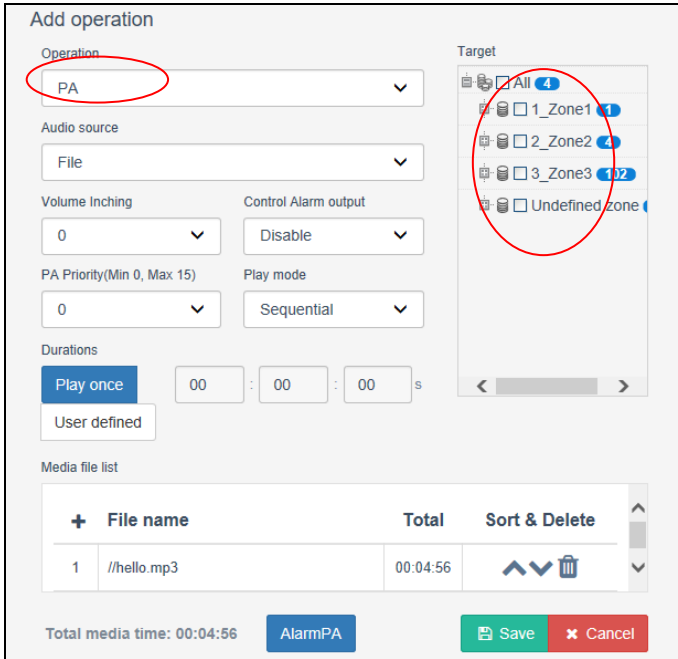
[Login]: Check the event terminal and trigger the specified event in the operation when the terminal lands on the server.

[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 operation

No.	Functions	Diagram
1	<p>Add operation: PA</p> <p>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.</p> <p>1.1 audio source type: [file]</p> <p>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.)</p> <p>(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.)</p> <p>②Select the target terminal in the target area.</p> <p>③Synchronous 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.</p> <p>④Broadcast level: when multiple tasks meet the date of execution on that day, the highest level is executed first and the same level is arranged before execution.</p> <p>⑤ Play mode: can be set to play in sequence or random play (valid when the duration is not 0)</p> <p>⑥The 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 automatically interrupted at the appionted time. If the time is longer, it will in loop broadcast.</p>	

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

The screenshot shows the 'Add operation' dialog box. The 'Operation' dropdown is set to 'PA'. The 'Audio source' dropdown is set to 'Terminal'. The 'Volume Inching' is set to '0'. The 'Control Alarm output' is set to 'Disable'. The 'Enable the event source terminal id' checkbox is checked. The 'Source id' field is set to '0'. The 'Target' list on the right shows 'All' (4), '1_Zone1' (1), '2_Zone2' (4), '3_Zone3' (102), and 'Undefined zone' (0). The 'Durations' section has 'unlimited' selected. The 'Total media time' is '00:00:00'. The 'AlarmPA' button is highlighted. The 'Save' and 'Cancel' buttons are at the bottom right.

Add operation: PA**1.3 Audio resource type: 【 Server Sound Card】**

Collect audio resource of computer server sound card to broadcast.

The screenshot shows the 'Add operation' dialog box. The 'Operation' dropdown is set to 'PA'. The 'Audio source' dropdown is set to 'Server Sound Card'. The 'Volume Inching' is set to '0'. The 'Control Alarm output' is set to 'Disable'. The 'PA Priority (Min 0, Max 15)' is set to '0'. The 'Durations' section has 'unlimited' selected. The 'Media file list' section is empty. The 'Target' list on the right shows 'All' (4), '1_Zone1' (1), '2_Zone2' (4), '3_Zone3' (102), and 'Undefined zone' (0). The 'Total media time' is '00:00:00'. The 'AlarmPA' button is highlighted. The 'Save' and 'Cancel' buttons are at the bottom right.

Add operation: PA**1.4 Audio resource type: 【 Speech Synthesis】**

The words is converted to audio for broadcast, it is needed to input words in the dialog box.

The screenshot shows the 'Add operation' dialog box. The 'Operation' dropdown is set to 'PA'. The 'Audio source' dropdown is set to 'Speech synthesis'. The 'Volume Inching' is set to '0'. The 'Control Alarm output' is set to 'Disable'. The 'PA Priority (Min 0, Max 15)' is set to '0'. The 'Durations' section has 'Play once' selected. The 'Speech synthesis' text field is empty. The 'Target' list on the right shows 'All' (4), '1_Zone1' (1), '2_Zone2' (4), '3_Zone3' (102), and 'Undefined zone' (0). The 'Total media time' is '00:00:00'. The 'AlarmPA' button is highlighted. The 'Save' and 'Cancel' buttons are at the bottom right.

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.

Alarm output broadcast: click [AlarmPA] to set release the alarm terminal number. When the local alarm output is triggered during talking, the alarm can be released by clicking the "Cancel" button. (for some terminals only)

Add operation

Operation: **Talk**

Enable the event source terminal id: ☐

Start terminal ID:

Start panel ID:

End terminal ID:

Duration: **unlimited** | 00 : 00 : 00 s | User defined

AlarmPA | Save | Cancel

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**

Enable the event source terminal id: ☐

Start terminal ID:

Start panel ID:

End terminal ID:

End panel ID:

Durations: **unlimited** | 00 : 00 : 00 s | User defined

AlarmPA | Save | Cancel

4 Add operation: delay

When terminal have not any operations, delay time.

Add operation

Operation: **Delay**

Durations: **unlimited** | 00 : 00 : 00 s | User defined

AlarmPA | Save | Cancel

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: remotely broadcast control

Remotly broadcast control number folder settings, and check the target terminal. The file will be played when the task manually or automatically running.

5.4Command type: publish information

Publish info will displayed the content which is indicated on LED screen. Choose the target terminal and input the text on the "Send Content". When the task manually or automatically running, the LED screen will display the settings text content.






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

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

Schedule Task							
Scheme list	+ Add	Delete	Start	Stop	Copy	Cut	Paste
Batch	More	Calendar					
class	Enable	Task name	State	Trigger	Operation	Start	More
Enable	<input checked="" type="checkbox"/>	task1	Idle	[Timer] 10:00:29 Daily 2018-11-06 > 2028-11-06	[PA] Total: 00:00:00s	▶	⋮
	<input checked="" type="checkbox"/>	task2	Idle	[Timer] 10:01:09 Daily 2018-11-06 > 2028-11-06	[PA] Total: 00:00:00s	▶	⋮

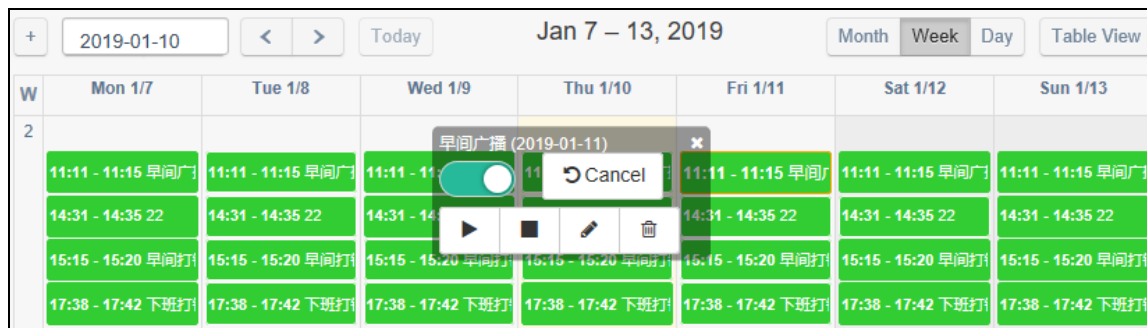
Enable or disable task/ modify or delete task/ start or stop task/ push task/ log:

- enable or disable task
Check task and click ☒ 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;
- 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 task
Select the task, click the "Start" button to manually start the task, click the "Stop" button to manually stop the running 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.
● Batch	Check the task and click the "Batch" button to batch modify the task cycle type, terminals adding and deleting, and sound source modification.
● Push task management	Click the button  and select "Push task management" to view the pushed tasks;
● Sort by time	Click the button  and select "Sort by time" to sort according to the task running time;
● Daily task	Click the button  and select "Daily task" to view the scheduled task of the day;
● Export to main controller	Check timing ringing task, and click  button, select "Export to main controller" to export the task to directory "C:\NAS2007". After manually copy NAS2007 folder to SD card of the main controller. When the device is offline, the exported timing ringing task will be executed.
● View task running log	Click the "More"  button at the far right of the task list, select "Log" to view the task running log, log task running time and task type (manual execution / automatic execution);

Calendar view


Click the "Calendar View" button on the planned task interface to switch in calendar view, which supports displaying monthly, weekly and daily task.

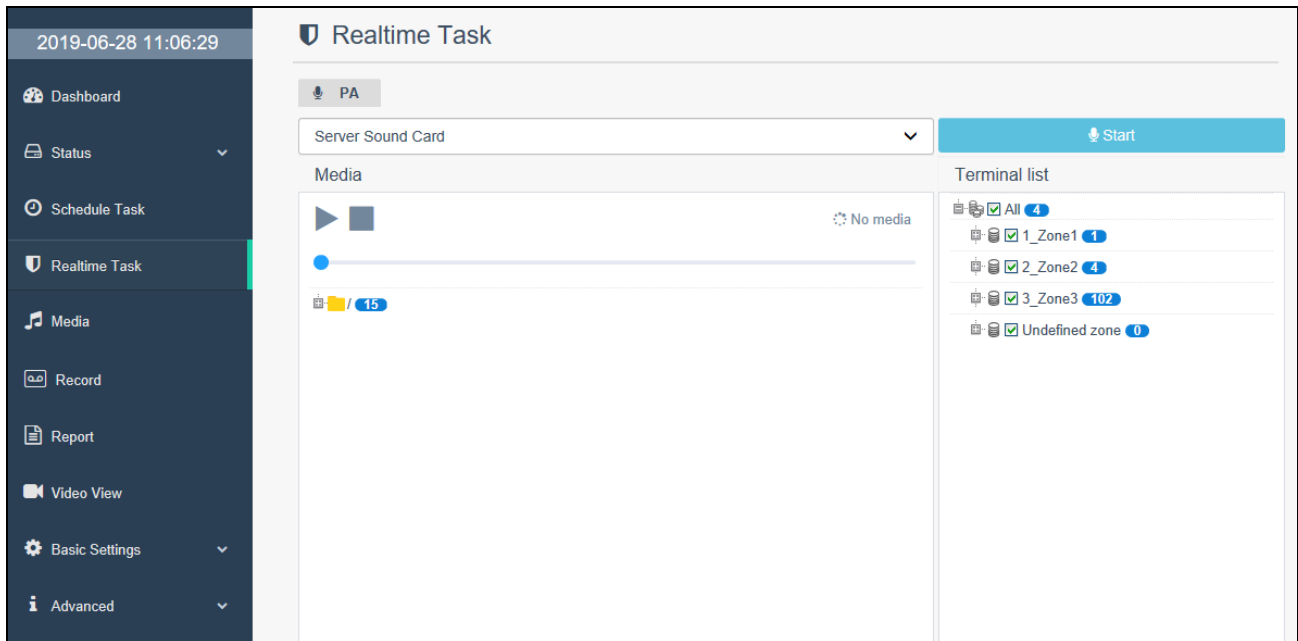


Click a task, and click  button to open/close the task.

Click a task, and click   button to temporarily cancel/restore the current task;

Real-time task

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



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

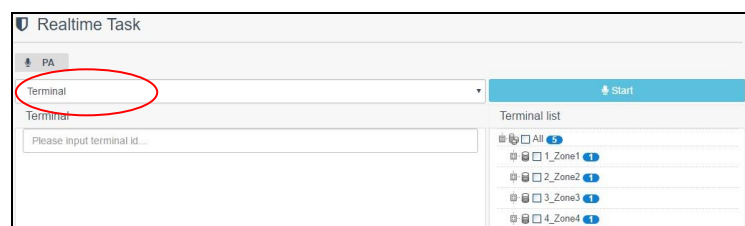


- ② File: use audio file of media library to broadcast to the target terminal.

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



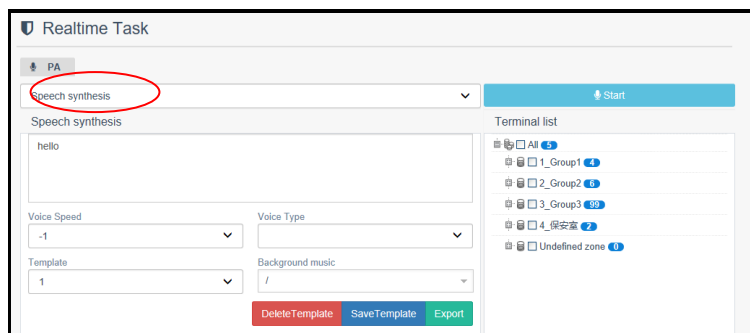
- ③ Terminal: set terminal ID of initiating broadcast, this terminal initiate broadcast to target terminals.



- ④ Speech synthesis: Input broadcast content in the "speech synthesis" area, and broadcast to the target area by text conversion convert to audio.

Voice Speed: Set the speed of the speech during speech playback. When set in 0, it means playing at normal speech speed.

Voice type: Please select "Microsoft Huihui Desktop" when the broadcasting in Chinese, and "Microsoft Zira Desktop" when the



broadcasting in English. Please choose "IFLY_xiaofeng" for female voice and "IFLY_xiaoyan" for male voice.

Word template settings: input the word in the speech synthesis, and then click "Save Template" to input the template title in the pop-up dialog box, it will be effective after saving. You can choose the corresponding template to make broadcasting in the next time.

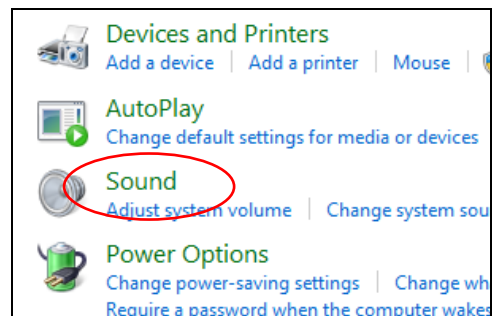
Background music: set the background music of voice broadcasting.

Note: Please ensure that the computer sound card has stereo-mixing function. the "stereo mixing" sound card of Win 7 system is hidden by default, if enable "stereo mixing", please refer to the following operate steps:

- 1 Open control panel and select "Hardware and Sound".



- 2 Open control panel and select "Hardware and Sound".

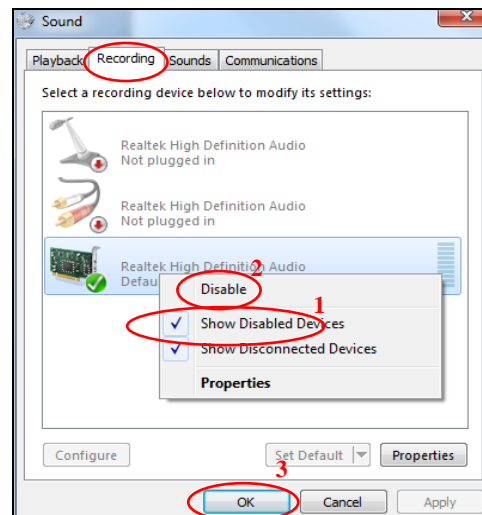


- 3 Select "Recording" parameters and modify settings:

① Right click on the "Recording" parameter blank, and check "Show Disabled Devices".

② Right click "stereo-mixing", enable.

③ Click "OK"



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.

File type	File name	File size	Download	Music demo	Del File
	hello.mp3	4.52M			
	yellow.mp3	4.03M			

Add audio files


1. Click the “+” button beside “media file list” to build new files catalog.
2. Select pointed catalog, click “ 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)**

Record

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.

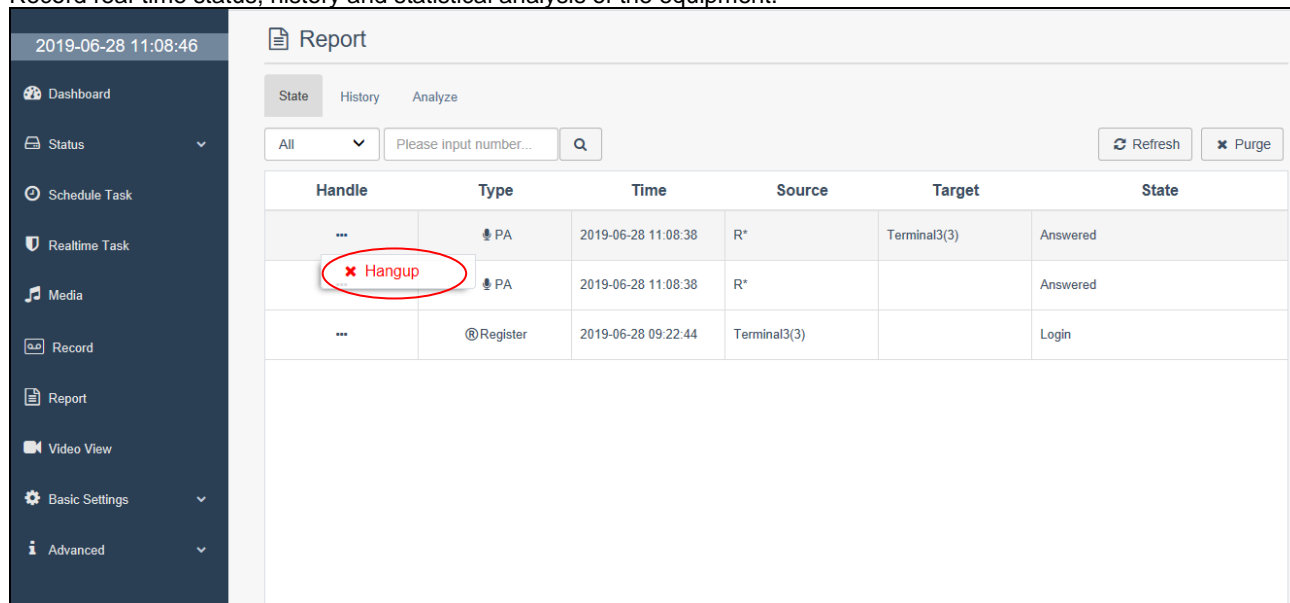
Type	Inbound	Outbound	Start time	File size	Download	Preview
PA	AppServer1(9990001)	-	2019-06-28 11:00:00	0.04M		
PA	AppServer5(9990005)	-	2019-06-28 10:37:48	4.52M		
PA	AppServer3(9990003)	-	2019-06-28 10:30:00	4.52M		
PA	AppServer7(9990007)	-	2019-06-28 10:00:00	4.52M		
PA	AppServer4(9990004)	-	2019-06-28 09:30:00	4.52M		

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  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.**

Report


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



- Real-time state

Record the events of registration, talk, PA, monitor, alarm and meeting;

Hang up: click  and then click "Hangup" button to mandatory terminated the corresponding intercom, broadcast, monitoring and other events.

Delete: click  to delete all records and terminate the intercom, broadcast, monitoring and other events.

- History

Record working records of all devices, such as registration, talk, PA, and which is support multiple format export.

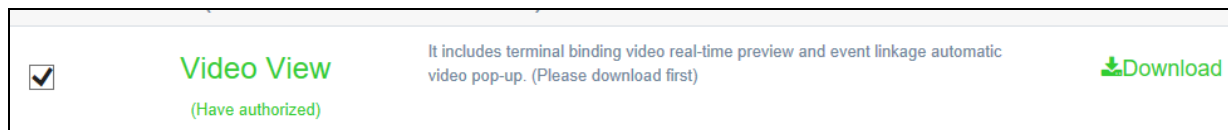
- Analyze

Statistics the total working times of the terminal in the form of charts or data views.

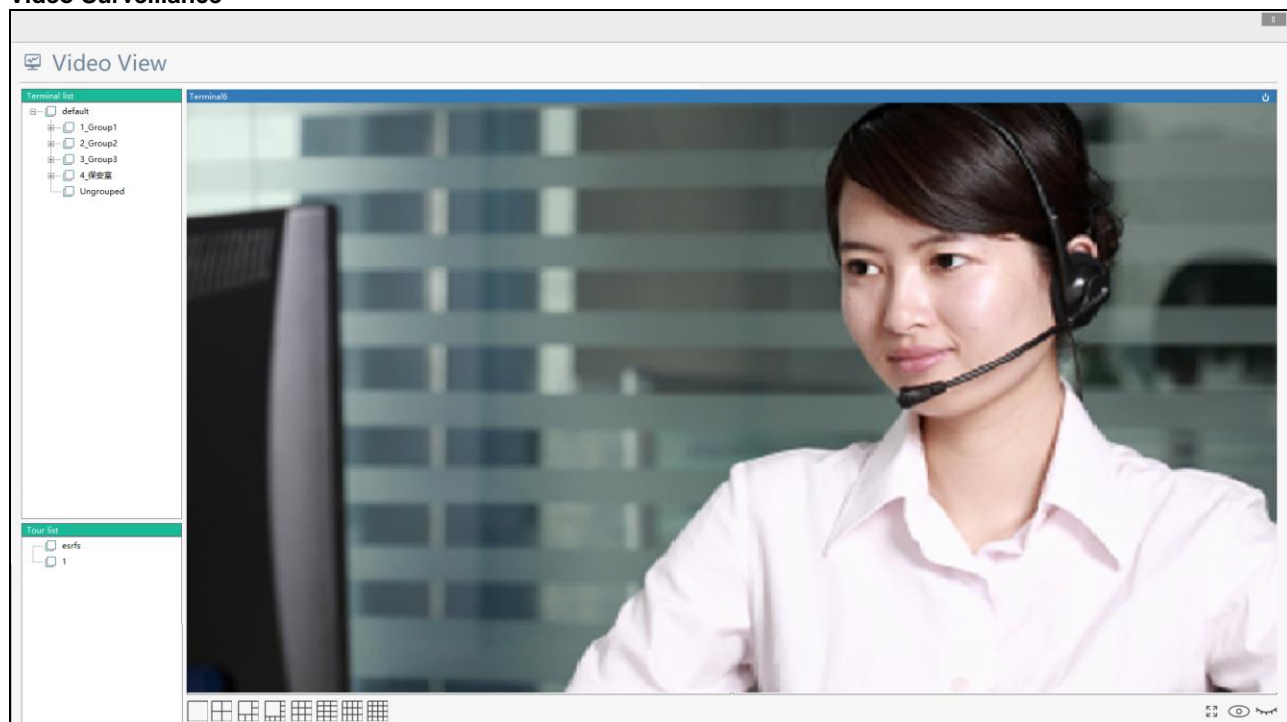
Video Surveillance

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  to download video control, and restart the browser after installation.




Video Surveillance



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”)

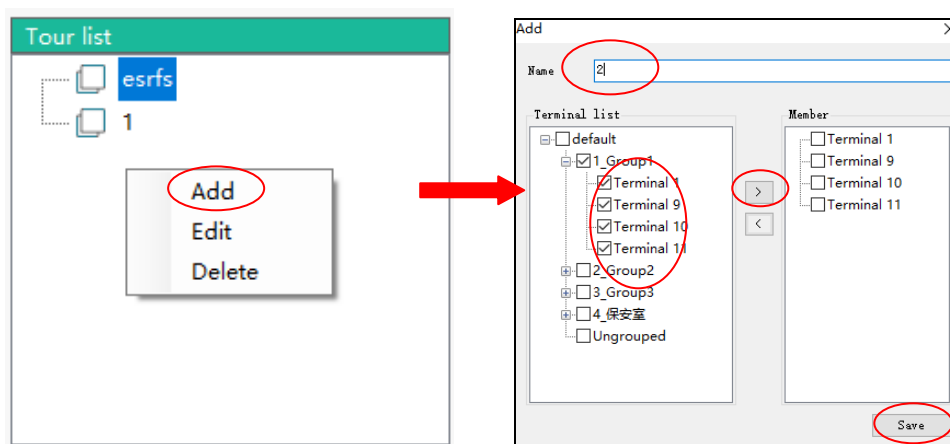
View switch


Click the  button to switch different views respectively (4 grids video, 6 grids video, 7grids video, etc), and you can directly drag the terminal bound video to the designated screen for browsing.

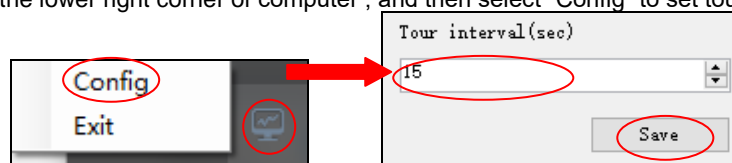
Video tour

Set video tour to realize automatically diplay 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.

PA Controller

The PA controller is a convenient operation controller for the broadcast function to be customized. To use this module, you need to enable the broadcast controller function in **【Advanced Settings】- 【Extended Function】**. The broadcast operation is as follows:

1. Select the broadcast type

Server sound card: The acquisition server is located in the computer sound card audio source to broadcast the target terminal

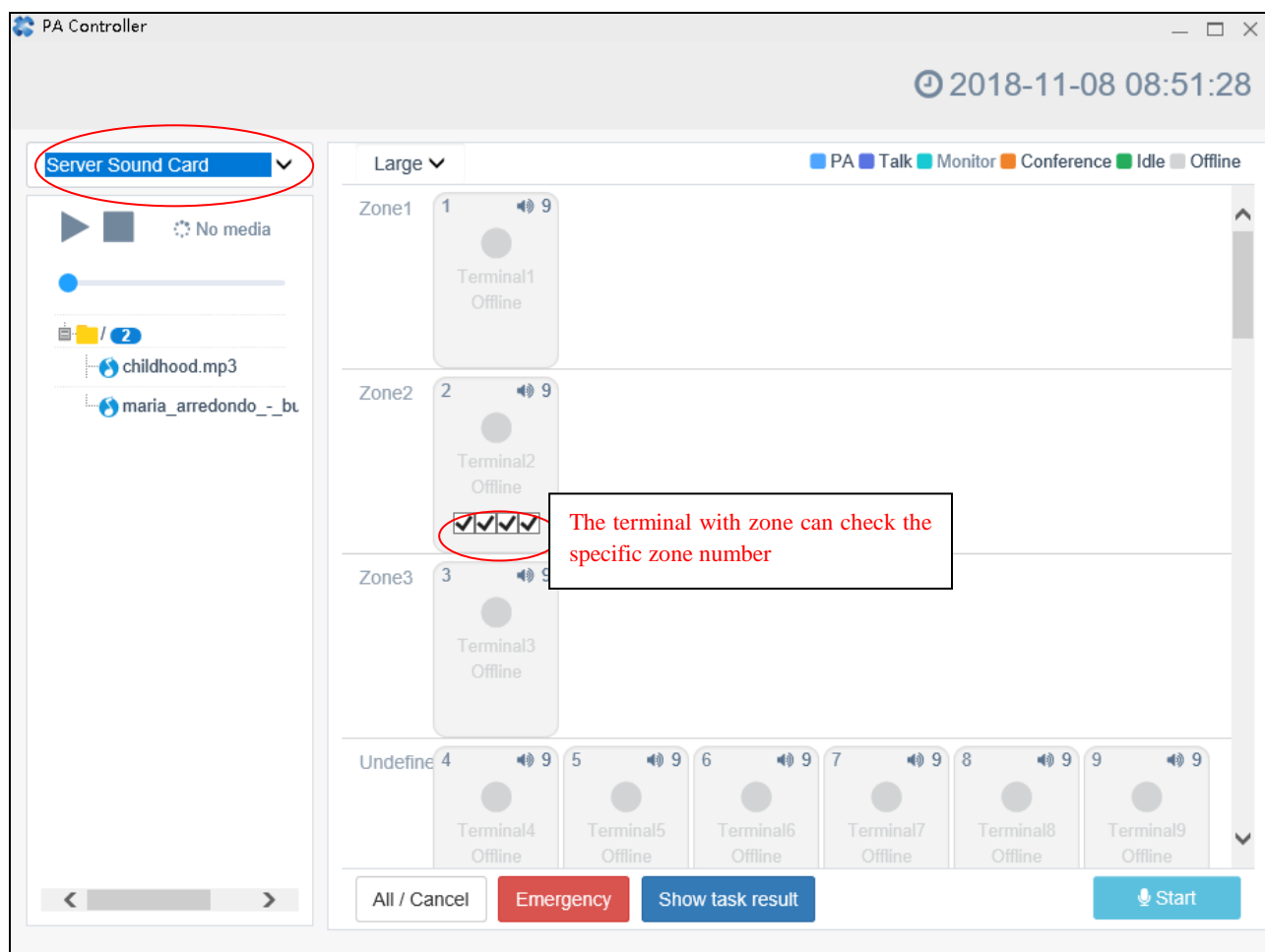
File: Broadcast the to target terminal using the media audio file. (Note: Left click to select audio, double click to listen online)

Terminal: Set the terminal ID number of the broadcast terminal, and the terminal initiates broadcasting to the target terminal.

Speech synthesis: Input broadcast content in the "speech synthesis" area, by converting text to audio, then broadcast to the target area.

2. Select the target zone or terminal (click the partition number to select all the terminals under the partition with one click).


3. Click the Start Broadcast button on the bottom right to initiate the broadcast. (Click the "Emergency Broadcast" button to initiate a broadcast for all partitions)

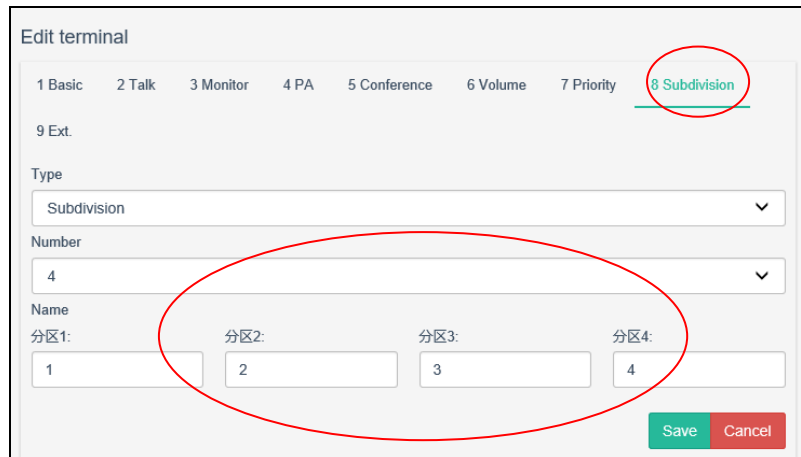


Note: Terminals with zone support broadcast to specific zones, as follows :

1. Set the number of zones and the name of terminals in 【Basic Settings】


- 【 Terminal Management 】 -
- 【 Add/modify Terminal 】 -
- 【 Subdivision 】. Click save after setting.


2. In the PA controller terminal list, the set zone number can be displayed.  The defaults is all selected. Click the corresponding button to cancel the check. After canceling, the zone will no longer receive the broadcast initiated by the server.

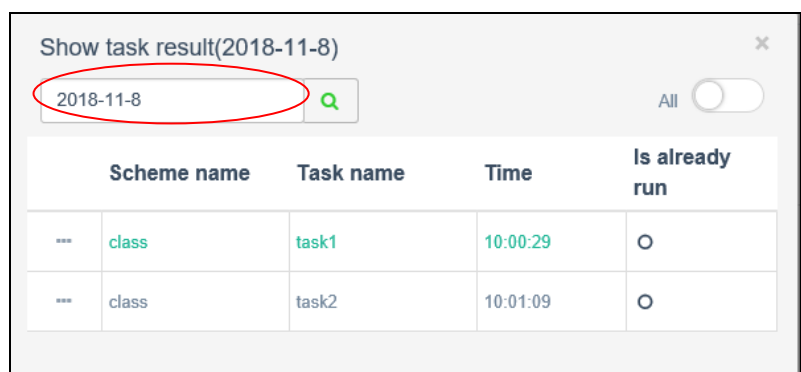


View the daily tasks: click the "Daily task" button to view the list of scheduled tasks for the day, showing green color indicating the scheduled task is currently being executed.

1. The daily task execution can be queried by time;

2. Click the button  before the task to temporarily enable or disable the current task;

3. Click the "All" button  in the upper right corner to display all scheduled tasks for the day (including disabled).

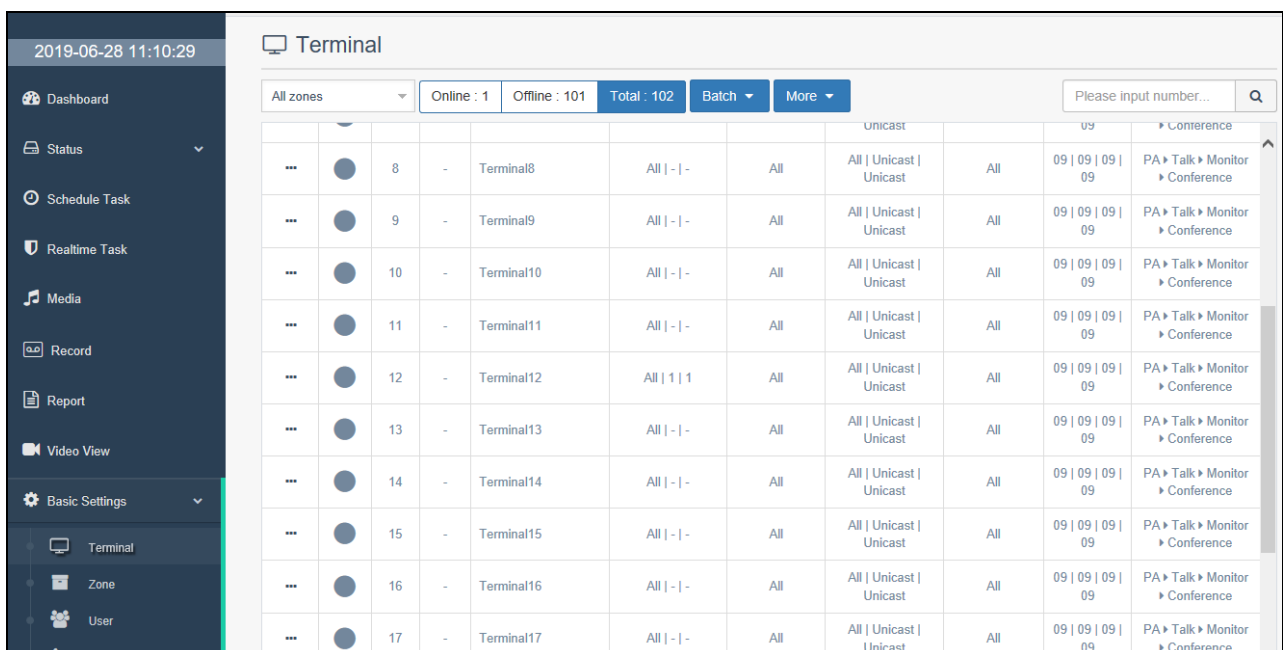


	Scheme name	Task name	Time	Is already run
---	class	task1	10:00:29	<input type="radio"/>
---	class	task2	10:01:09	<input type="radio"/>

Basic settings


Terminal management


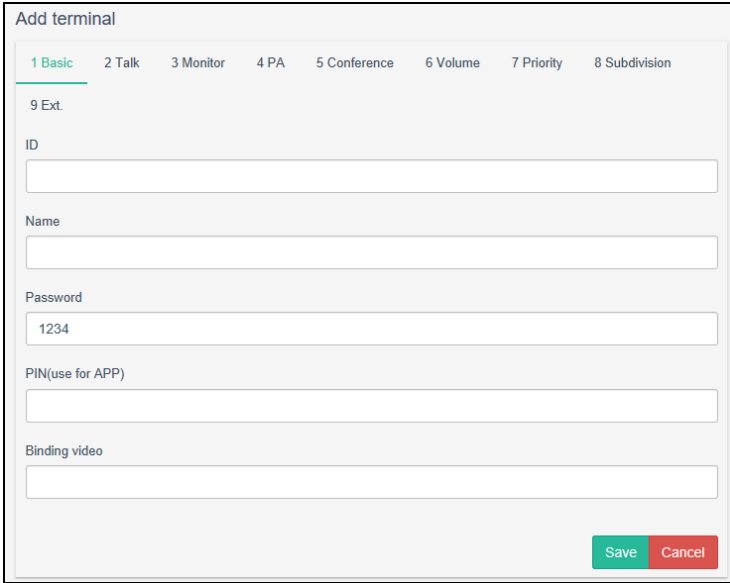
Terminal settings can be operated at the time of installing software, you can add terminal/ modify terminal/delete terminal in the terminal management interface.



2019-06-28 11:10:29											
Terminal											
All zones Online : 1 Offline : 101 Total : 102 Batch More											
Please input number...											
...	8	-	Terminal8	All - -	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		
...	9	-	Terminal9	All - -	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		
...	10	-	Terminal10	All - -	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		
...	11	-	Terminal11	All - -	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		
...	12	-	Terminal12	All 1 1	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		
...	13	-	Terminal13	All - -	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		
...	14	-	Terminal14	All - -	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		
...	15	-	Terminal15	All - -	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		
...	16	-	Terminal16	All - -	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		
...	17	-	Terminal17	All - -	All	All Unicast Unicast	All	09 09 09 09	PA ▶ Talk ▶ Monitor ▶ Conference		

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	<p>“Basic” attribute</p> <p>① Set terminal ID and name.</p> <p> 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.</p> <p>② Terminal password: set terminal password.</p> <p>③ PIN code: if XC-APP access function is enabled in “Advance”-“Extension”, the PIN code of the APP device can be filled in.</p> <p>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 mode is as follows:</p> <p>Video address format is rtsp://username: password@IP address: port; (eg. rtsp://admin:123@192.168.1.101:554)</p> <p>Bind more than one video address, please divided by \$ (eg. rtsp://admin:123@192.168.1.101:554\$rtsp://admin:123@192.168.1.102:555)</p>	


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. (Note: managed terminal must be set as the same level host)

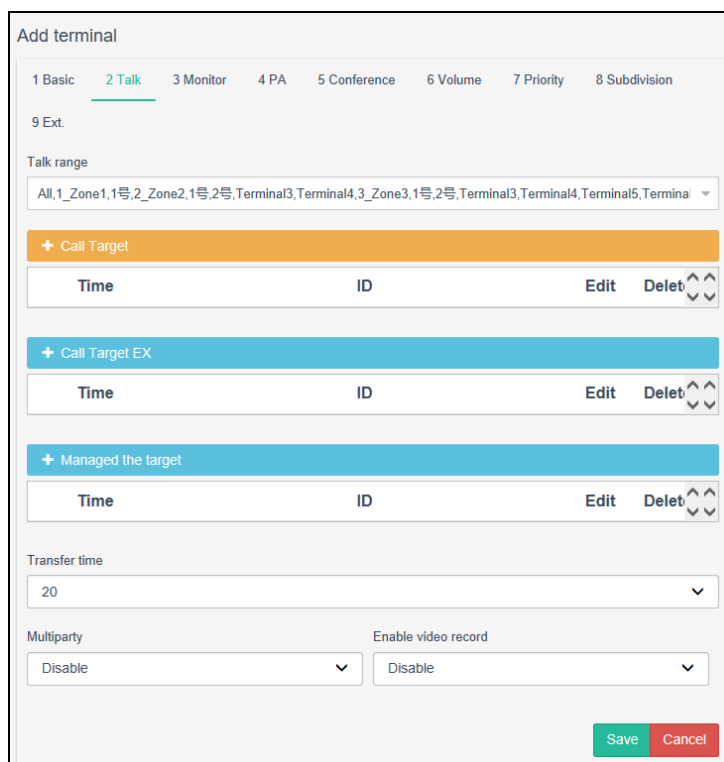
Transfer time: when target is busy or power off, call will automatically transfer to the next target time, time range can be set to 0-120s.

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

Allow multiparty calls: set whether to enable multiparty calling.

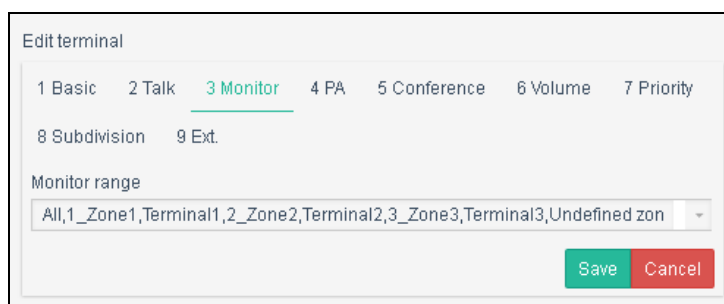
Talk range: set talk permissions of terminals, it is suggested to check all.

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”.



3 “Monitor” attribute

Monitor terminal and monitor permissions can be set in the monitor attribute, check authorized terminals in the “Monitor range”.



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.

Edit terminal

1 Basic 2 Talk 3 Monitor **4 PA** 5 Conference 6 Volume 7 Priority

8 Subdivision 9 Ext.

PA send transport mode

Unicast

PA transport mode

Unicast

PA range

All,1_Zone1,Terminal1,2_Zone2,Terminal2,3_Zone3,Terminal3,Undefined zon

Save Cancel

Compare unicast and multicast

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.
Multicast	The one to one communication mode between server and terminal, it means that hosts joined the same group can accept all data in this group. Switcher only transmit and copy the required data to demander.	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)

5 Meeting

Meeting authorized terminals can be set on the meeting attribute.

Edit terminal

1 Basic 2 Talk 3 Monitor 4 PA **5 Conference** 6 Volume 7 Priority

8 Subdivision 9 Ext.

Conference range

All,1_Zone1,Terminal1,2_Zone2,Terminal2,3_Zone3,Terminal3,Undefined zon

Save Cancel

6 Volume

Click circle mark to increase/decrease and to set the input/output of intercom/broadcast of the terminal.

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.

Task type	Sort
Recieve PA level	
Recieve talk level	
Recieve monitor level	
Recieve conference level	

Terminal Priority (Min 0, Max 15)

0 3 6 9 12 15

The terminal determines the priority according to the task type. If the task type is the same, the decision is based on the terminal priority initiated.

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.

Type: select a 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.

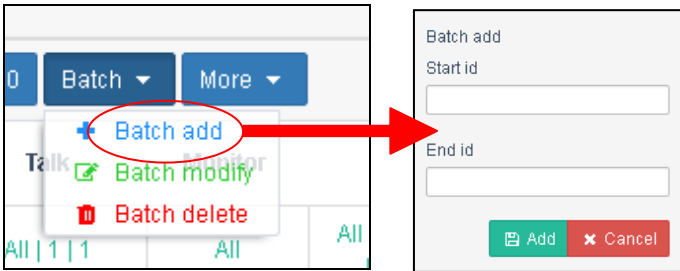
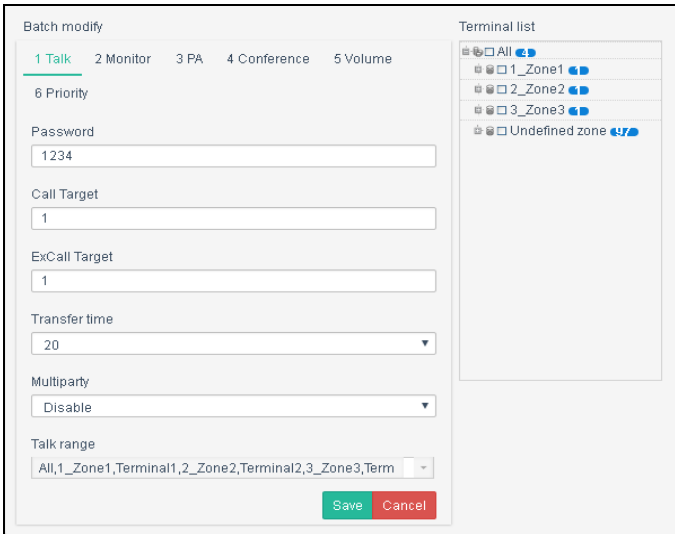
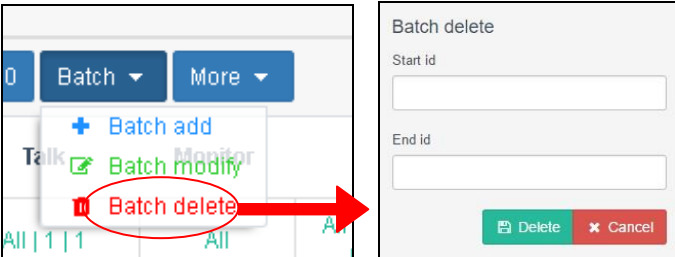
Type: Subdivision

Number: 4

Name:

分区1: 1 分区2: 2 分区3: 3 分区4: 4

Batch Management

No.	Functions	Diagram
1	<p>Batch add</p> <p>Click Batch “Batch” button, and select “Batch add”, input the start and end ID need to be added in the pop-up dialog box, and then click “Add”</p> <p>IP intercom and PA system software at most support 1000 PCS terminals, suggest to add 1-1000 terminal No.</p>	
2	<p>Batch modify</p> <p>Click “batch modify t” button, and select “ batch modify”, and then check the terminals and terminal attributes need to be modified on the “ Terminal list”</p>	
3	<p>Batch delete</p> <p>Click Batch “Batch” button - Batch delete and input the start and end ID need to be deleted in the pop-up dialog box, and then click delete.</p>	

Zone management

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

2019-06-28 11:14:41

Dashboard

Status

Schedule Task

Realtime Task

Media

Record

Report

Video View

Basic Settings

Terminal

Zone


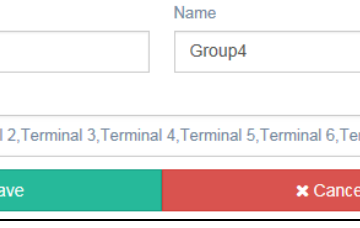
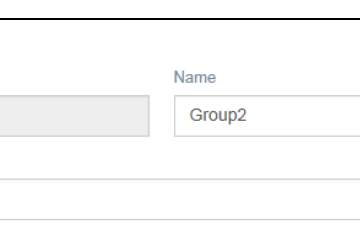
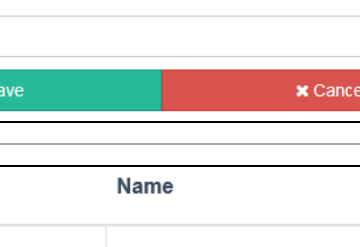
Zone

Local partition

Cross-server partition

+	ID	Name	Member
...	1	Zone1	1,
...	2	Zone2	1,2,3,4,
...	3	Zone3	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,105,

Add/ Modify zone

No.	Functions	Diagram
1	<p>Add zone</p> <p>Click add zone “+” button, 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”.</p> <p> Note: one terminal can be added to more than one zones.</p>	
2	<p>Modify zone</p> <p>Double click the zone to Modify its name, member.</p>	
3	<p>Delete zone</p> <p>Click “...” button to modify and delete zone.</p>	

4 Cross-server zone settings

Please add other servers' information in "Basic Settings"- "Multi-server".

Click "Cross-server Zone" and click + to add zones, the zone name and member list can be set. The cross-server zone member display mode is server number+ terminal ID number.

The zone modification and delete operation same as above mentioned.

The screenshot shows a 'Zone' management window. An 'Add' dialog is open with the following fields:

- Name:** A text input field.
- Member:** A dropdown menu.
- Buttons:** 'Save' (green) and 'Cancel' (red).

User management





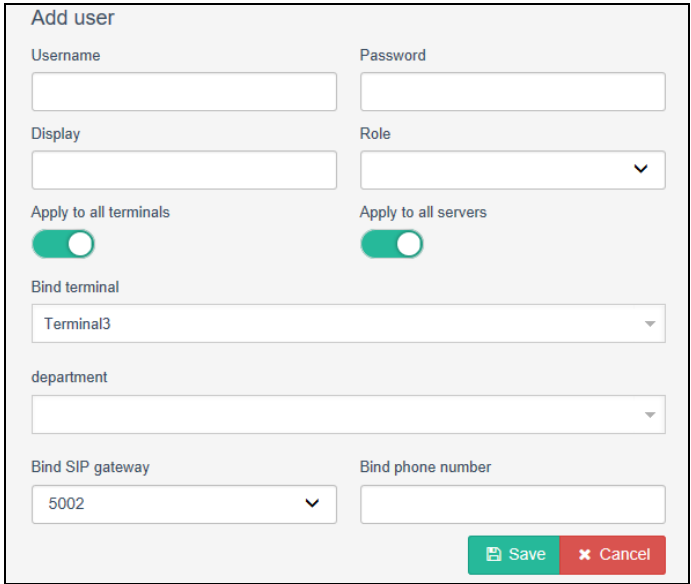

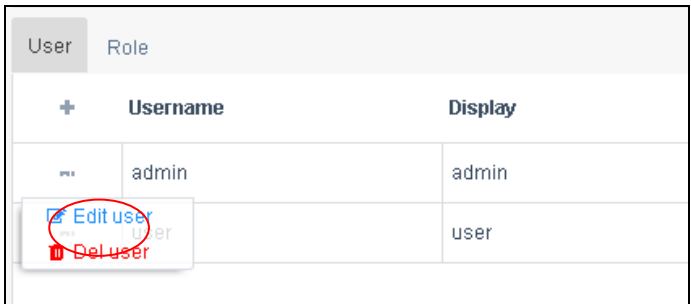
User management

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

The screenshot displays the 'User' management interface. On the left is a sidebar with the following menu items: Dashboard, Status, Schedule Task, Realtime Task, Media, Record, Report, Video View, Basic Settings, Terminal, Zone, User, and Talk. The main area is titled 'User' and contains a table with the following columns: Username, Display, and Role. The table lists one user: 'admin' with the role '超级管理员'.

Username	Display	Role
admin	admin	超级管理员

Add user/ Modify user/ delete user

NO.	Functions	Diagram
1	<p>Add user</p> <p>Click the user addition button  and set the user name, password (password cannot be less than 6 digits, but must be a combination of uppercase letter + lowercase letter + number) and role name in the popup dialog box.</p> <p> 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.</p> <p>Binding terminal: binding center microphone number settings, which is used for map control and video linkage.</p> <p>Department: User's department</p> <p>Binding SIP gateway: binding SIP gateway and the number settings (Note: SIP gateway can be added in "Multi-Server" - "SIP Trunk").</p>	
2	<p>Edit/Delete user</p> <p>Edit user: click the edit button "...", and select "Edit user" or double click a user to edit relative information, such as display name, password, and permission, and so on.</p> <p> Note: If the user forget the password, the administrator can modify the password through "Edit user".</p> <p>Delete user: Click the edit button "... " in front of the user name, select "Edit" to delete the user.</p>	

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.

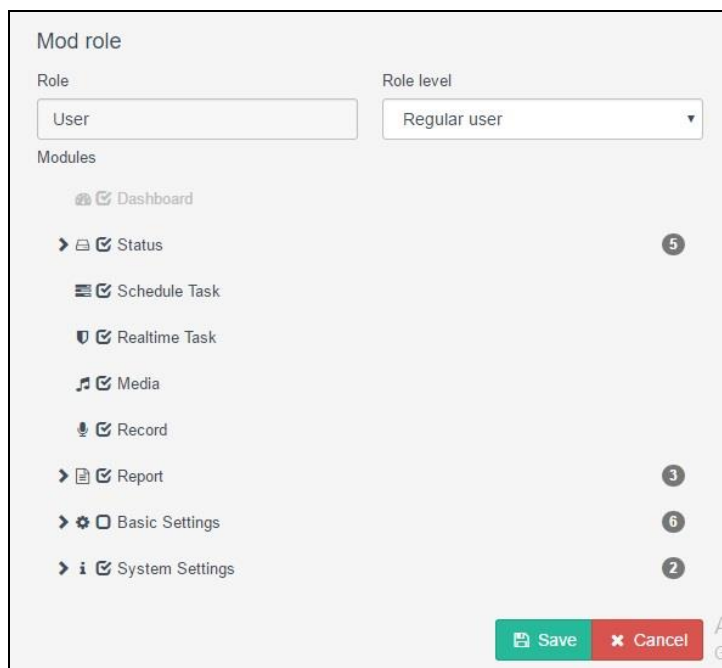
Role																											
+	Role	Role level	Modules																								
			Dashboard	Status								Schedule	Realtime tasks	Media	Record	Report			Basic Settings							System Settings	
				Table View	Grid View	Map View		Scene View		Video View	State					History	Analyze	Terminal	Group	User	Role	Composite	Multi-server	SDK	About		
						Handle	Config	Handle	Config																		
...	操作员	Regular user	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘			
...	用户	Regular user	✔	✔	✔	✔	✘	✔	✘	✔	✔	✔	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘	✘			
...	管理员	Administrator	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			
	超级管理员	Administrator	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			

Add role/Modify role/ delete role

NO.	Functions	Diagram
1	<p>Add role</p> <p>Click “+” button in add role, and then set the role name and task permission in the pop-up task bar;</p> <p>Self-built task: only view the planned tasks of the user;</p> <p>All tasks: view planned tasks of all users;</p> <p>Module permissions: check the role owned module permissions;</p> <p>Click “Save” to complete settings.</p>	

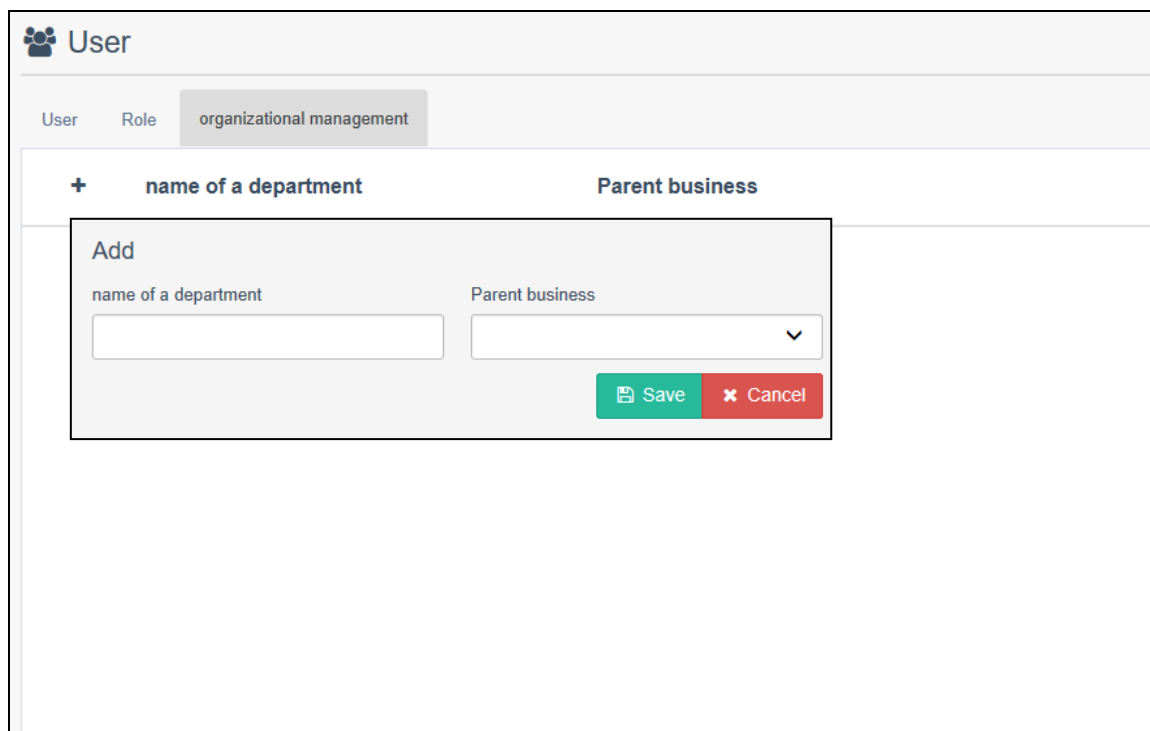
2 Modify/Delete role

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



Organization structure management

Department organization structure settings, and click  to add the catalogue.



Talk settings

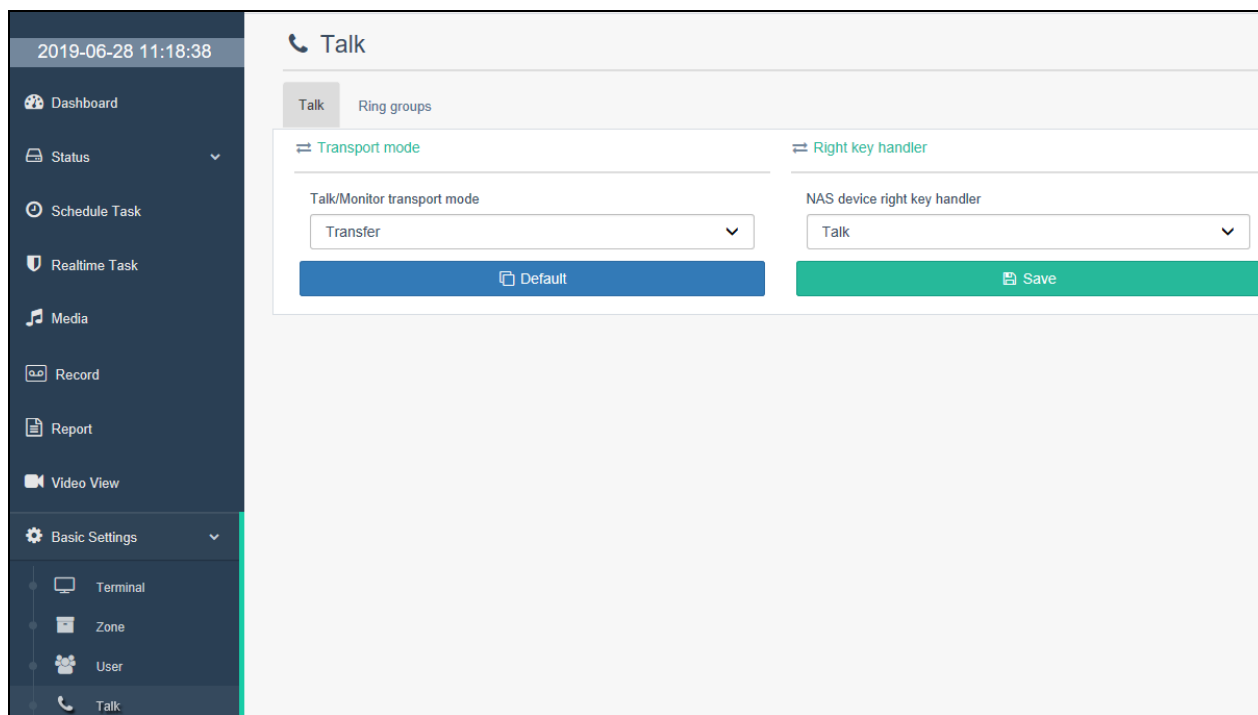
Intercom settings

Intercom/monitor transmission mode: default as server forward, and it can be set to direct mode.

Serve forward: the data will be forwarded from server, such as terminal 1 to server and then to terminal 2.

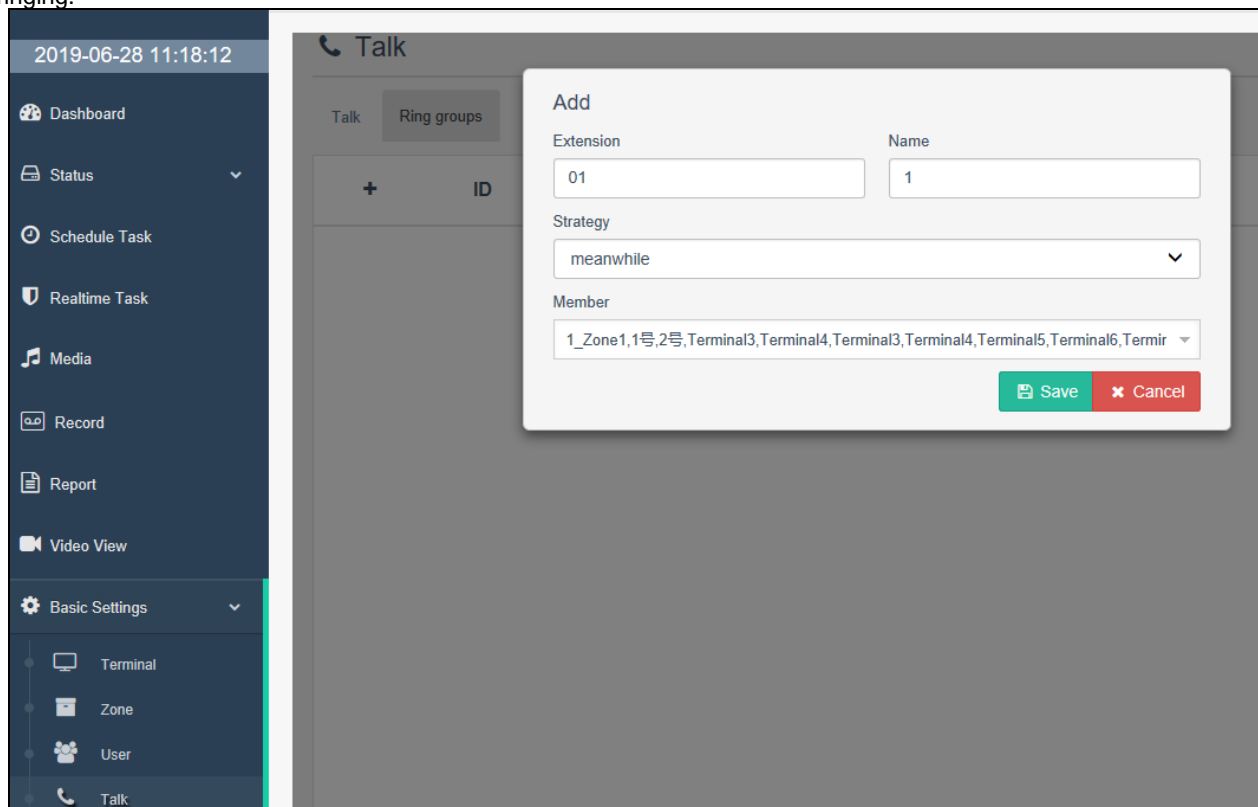
Direct mode: the data will not be forwarded from server, for example, it goes directly from terminal 1 to terminal 2 without through the server.

Process mode in right button: set dual-function in right button. That is means, in intercom settings, you can press the right button to initiate intercom; In alarm output settings, you can press the right button to trigger alarm output.



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.



PA settings

2019-06-28 11:19:07

Dashboard
Status
Schedule Task
Realtime Task
Media
Record
Report
Video View
Basic Settings
Terminal
Zone
User
Talk

PA

SIP prefix

Zone PA

Terminal PA

909

808

PA Multicast address

IP

Port

235.1.0

34567

Realtime Task

Time limit (minute)

PA Priority(Min 0, Max 15)

Disable

14

Audio Delay

NAS

PA Interval

PA Delay

Standard

20ms

0

PA send transport mode

Schedule Task

Realtime Task

Unicast

Unicast

Soundcard Configuration

Select input

Input volume



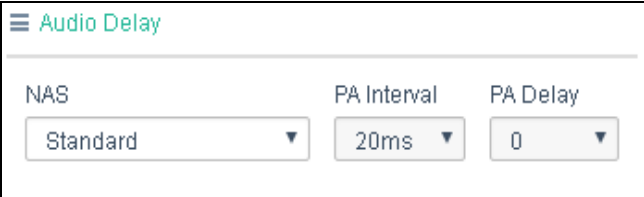
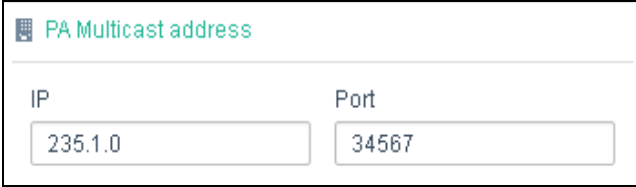
立体声混音 (Realtek High

0

47

100

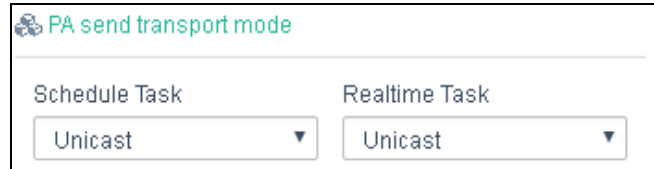
Default
Save

NO	Functions	Diagram
1	SIP prefix Standard SIP devices access to this system, the prefix numbers are needed to use broadcast function.	
2	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 level: set priority for real-time task broadcasting, from lowest 0 to highest 15.	
3	Audio delay Different delay modes are selected for intercom device to send broadcast, standard mode, speed mode and customized mode.	
4	PA multicast address When there are multiple sever in the LAN and different server initiate multicast, it is necessary to fill different IP address and port to avoid interference	

5 PA transmission mode

Unicast (server forwarding): broadcast data is forwarded by the server, such as terminal 1 to server and then to terminal 2

Multicast (pass-through mode): broadcast data is not forwarded by the server, for example, from terminal 1 to terminal 2, not through the server.



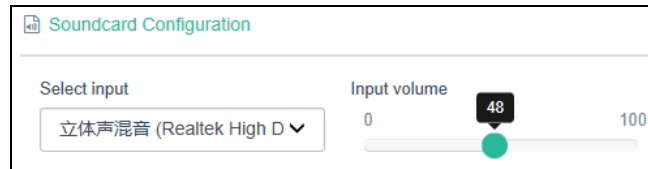
PA send transport mode

Schedule Task: Unicast

Realtime Task: Unicast

6 Sound card configuration

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



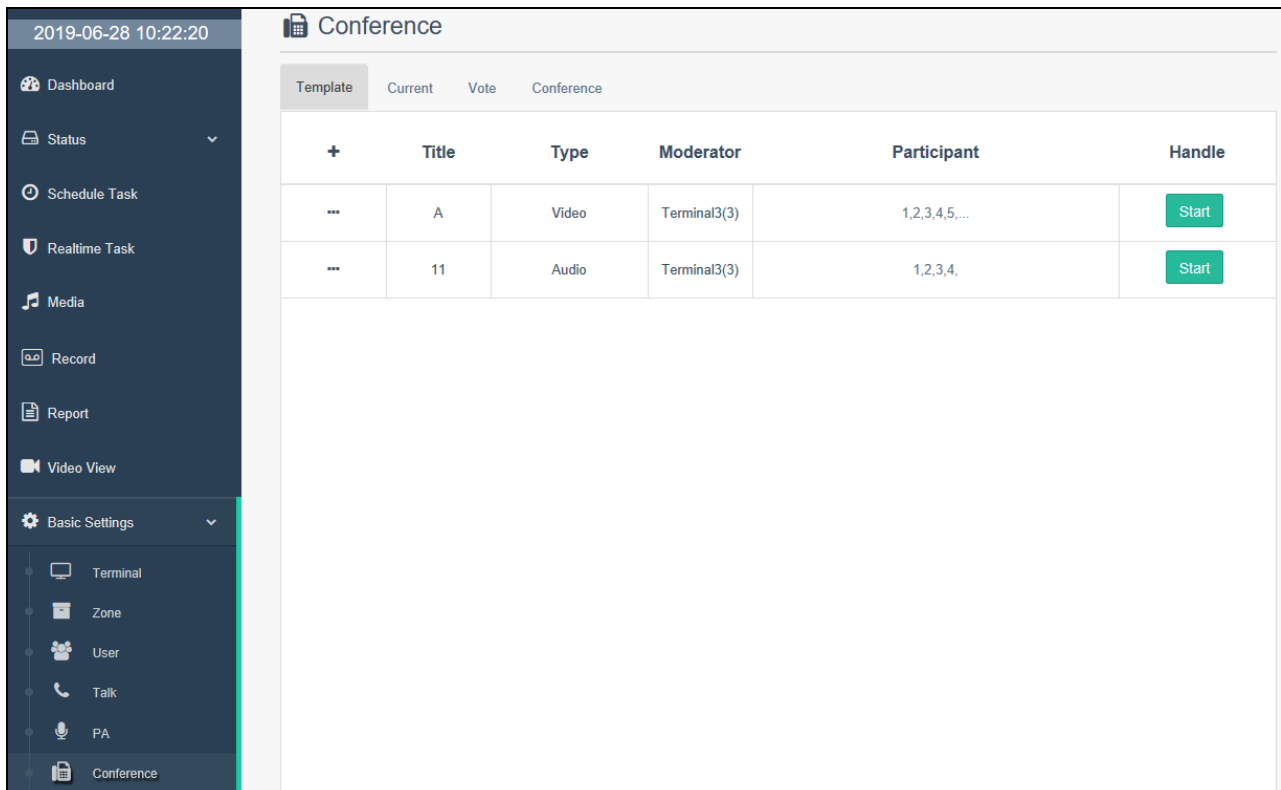
Soundcard Configuration

Select input: 立体声混音 (Realtek High D)

Input volume: 0 to 100 (current value 48)

Conference settings

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



2019-06-28 10:22:20

Dashboard

Status

Schedule Task

Realtime Task

Media

Record

Report

Video View

Basic Settings

Terminal

Zone

User

Talk

PA




Conference

Conference


Template Current Vote Conference



	Title	Type	Moderator	Participant	Handle
...	A	Video	Terminal3(3)	1,2,3,4,5,...	Start
...	11	Audio	Terminal3(3)	1,2,3,4,	Start

Add/modify/delete conference

NO	Functions	Diagram
1	<p>Add conference</p> <p>Click add conference  button and set conference name in the pop-up management interface, audio and video conference can be selected for the conference type.</p> <p>Host party: set the initiator of the conference; (the host party only supports the terminal with conference function)</p> <p>Parties: set the conference receiver, that is, the parties.</p> <p>Conference screen melting: during the video conference, the screen will display video of each terminal according to the set screen melting mode. (audio conference is not available)</p> <p>Multiple display: 1, 2, 4, 9, 16 multiple display, that is means the screen can display 1 grid, 2 grid, 4 grid, 9 grid and 16 grid video at same time. Each grid can add the multiple display terminals and the make round patrol time settings.</p> <p>Multiple display terminal settings: click a grid and choose the multiple display terminal in the conferee list. Different terminals can be selected at the same time, video will round display according to the settings time. (Note: each selected terminal can not be repetition)</p>	
2	<p>Conference operation</p> <p>After the conference has added, click the  button on the right, it will automatically running the conference, and the interface jumps to the "Current conference" module: Click the "add" button to temporarily add attendees and press "stop" button to cancel the conference. Click the "mute / speak" button to manually control the host party in mute/speak. Click the "Kick" button to kick the host party out of the conference and end the entire conference.</p>	

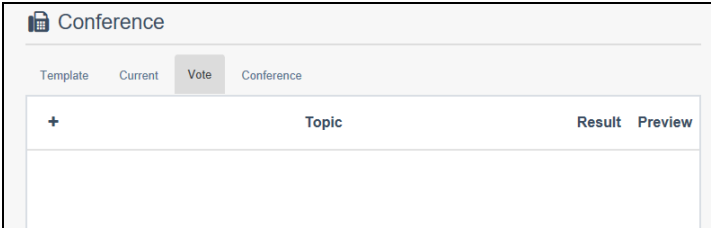
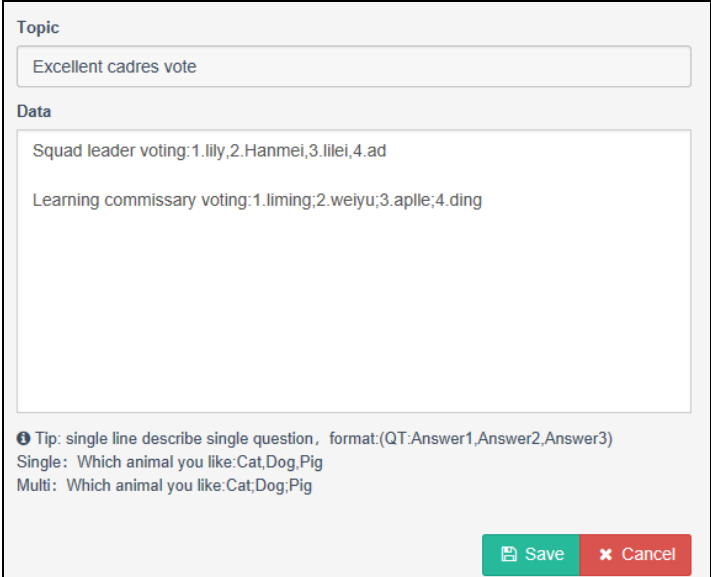
3 Edit/delete conference

Click the button  to edit/delete the conference.

Template	Current	Vote	Conference
+	Title	Type	Moderator
...	A	Video	Terminal3(3)
 Edit	11	Audio	Terminal3(3)
 Delete			
...	33	Video	Terminal3(3)



Vote management


IP video intercom paging console can start a vote if you adding vote in the vote management.

No.	Functions	Diagram
1	Set up vote Select Vote and click “+” button to add vote.	
2	Vote setting Topic: the topic of vote. Content: each row represents a poll question (format: question: answer1, answer2, answer3...). the single option is separated by a comma, and the multiple option is separated by a semicolon.(note: all punctuation marks in the data shall be entered in English) Note: after saving, click the preview button to preview whether the voting is qualified.	

- 3 After setting up the vote, the vote will be displayed on the vote management interface.

During the conference, the host can press “start a vote” to start vote set by server, all participators will receive the vote. The votes will be directly displayed on the host vote interface after voting completed. Meanwhile , the voting results can be checked in the sever software.

Template	Current	Vote	Conference
+	Topic	Result	Preview
...	Excellent cadres vote		

- 4 Preview vote result: click  button to preview vote result after voting completed.

Excellent cadres vote

Squad leader voting

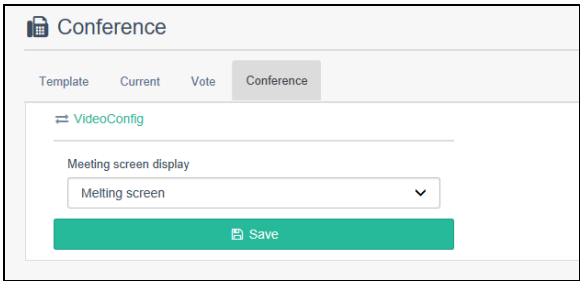
1.lily 0
2.Hanmei 0
3.lilei 3
4.ad 0

Learning commissary voting

1.liming 1
2.weiyu 0
3.apple 0
4.ding 0

Conference settings

Video conference display mode settings.

No.	Functions	Diagram
1	Conference video display Single screen display: video will be displayed on single screen during the conference; Melting screen display: multi-screen video display in different terminals during the conference.(2/4/9/16 melting screen, which can be set in "Template" - "Add")	

Composite settings

2019-06-28 10:18:13

- Dashboard
- Status
- Schedule Task
- Realtime Task
- Media
- Record
- Report
- Video View
- Basic Settings
 - Terminal
 - Zone
 - User
 - Talk

Composite

Terminal No.

7

Terminal No. digit 3

7

Exterior network mapping IP

IP

auto-nat

Auto get

☒

Storage Life(Days)

Log

30

Record

5

Sound and video configuration

Save path

C:/CPAS/CoreServer/recordings

Enable
☒

Network adaptive

Fec

Disable

Layered coding

High

Time switch machine

Auto Shutdown

00:00

Enable
☐

Auto Power On

Configuration

SMS access

Access to the serial port

COM1

Send content



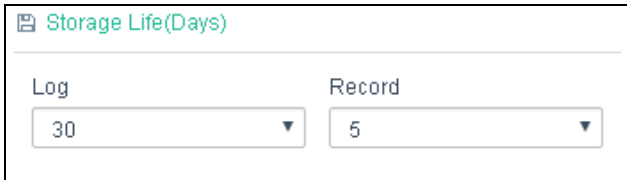
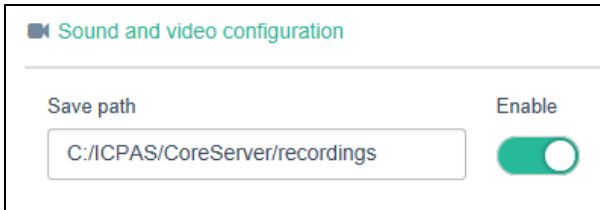
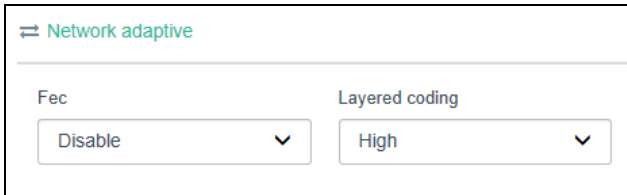

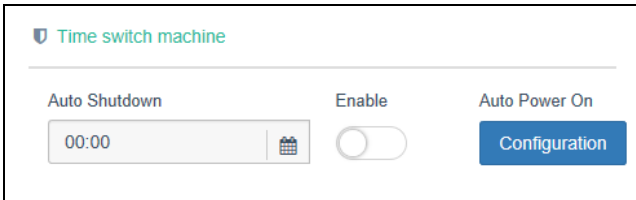

Call

Receive the number(split with ,)

13666666

Default

Save

NO.	Functions	Diagram
1	Terminal NO. settings Set terminal number, at most support 7 numbers	
2	Exterior network mapping IP When interior network is different from exterior network, set the exterior network mapping IP.	
3	Storage life (days) Set the time of running log and record, support forever storage	
4	Sound 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.	
5	Network self-adaption Automatic error correction and code flow settings.	
6	Timing switch machine Turn on the enable button  and set the server on/off time. For example, the server can be turned off at night and turned on in the morning automatically. Auto power off: setting the server power off time. Auto power on: click "Power on settings" to open the help document and set the auto power on time according to the prompts.	
7	SMS access SMS module access.	

Multi-server

Add server on the multi-server to realize across server communication.

2019-06-28 10:30:27

Dashboard
Status
Schedule Task
Realtime Task
Media
Record
Report
Video View
Basic Settings

Multi-server

Server
SIP Trunk

	ID	Name	IP	Port	Web URL
+	1	1	192.168.4.103	5080	192.168.4.103:80

1 Add server

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

Use proxy: the access to other server data from the server terminal needs to obtain interconnected server data

Add server

ID

Name

IP

Port

Use Proxy?

Proxy port

Web URL

Is open data?

Is it NAS server?

Save

Cancel

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) or SIP server (PBX)

Add SIP Trunk

Name

Prefix

ID

Type

OK

Cancel

Advanced settings

SDK Configuration

HTTP mode: the third access platform is HTTP interface access mode:

Compatible mode: the third access platform is original internal access mode.

2019-06-28 10:31:01

Dashboard

Status

Schedule Task

Realtime Task

Media

Record

Report

Video View

Basic Settings

Advanced

SDK

SDK

HTTP mode Compatible mode

+ HTTP Url

... http://192.168.1.13:8899

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.

2019-06-28 10:31:41

Dashboard

Status

Schedule Task

Realtime Task

Media

Record

Report

Video View

Basic Settings

Advanced

Backup & Restore

System will backup all information including terminals, zones & tasks

Upload backup file Backup now

Backup name	Backup date	File size	Restore	Download	Delete
1	2019-06-24 17:10:34	159.58M			

Device upgrade

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)

2019-06-28 10:32:12

Dashboard

Status

Schedule Task

Realtime Task

Media

Record

Report

Video View

Basic Settings

Advanced

SDK

Backup & Restore

Device Upgrade

Device Upgrade

The device will connect the server to the firmware automatic upgrade.

Type Upload firmware

Index	Type	About	File size	Download	Delete
-------	------	-------	-----------	----------	--------

Language configuration

Available for system language configuration, default language is Chinese, English and Russian.

2019-06-28 10:32:37

Dashboard

Status

Schedule Task

Realtime Task

Media

Record

Report

Video View

Basic Settings


Advanced

Language

ID Name Upload file

ID	Name	Download	Delete
zh	简体中文		
en	English		
russian	русский		

Extended Function

In the extended function, broadcast console, identity recognition and intelligent analysis can be opened by pressing the button  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 authorization!(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: default as 3-way SIP device access, 4-100 channel can be accessed after authorisation.

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

2019-06-28 10:33:52

- Status
- Schedule Task
- Realtime Task
- Media
- Record
- Report
- Video View
- Basic Settings
- Advanced
 - SDK
 - Backup & Restore
 - Device Upgrade
 - Language
 - Extension
 - Custom
 - About

Public module (no authorization code required)

PA Controller

The PA version is customized for the PA function.

Identity

Based on identity recognition, information access display and privilege control of third party devices can be realized.

AI

It contains Face recognition and semantic recognition(Need deploy special server.)

Additional module (need authorization code)

☒

Video View

(Have authorized)

It includes terminal binding video real-time preview and event linkage automatic video pop-up. (Please download first)

Download

☒

Map View/Scene View

(Have authorized)

Based on map mode, information browsing, quick talk / PA and other operations can be realized, and point location can be annotated.

☒

SIP device access

(Have authorized)

Access to SIP device, default support for 3-way access, beyond 3-way need to register, access way (minimum: 4 way, maximum: 100 way).

Access route

4

☒

XC-APP access

(Have authorized)

XC-APP does not support access by default. Access can only be realized after registration.

Application code

Get application code

Authorization code

Submit authorization code

System customization

Personalized customization system interface. Settings in software title, theme color and login mode.

1. Title: customize software title, for example, set the title as XX school, the set title will be appeared after saving. Click the title can also display the interface function button quickly.

2. SSO single sign-on: sets the logon mode for the server.

3. Theme color: customize the theme color of the interface.

Version information

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.

About

System: V2.0.0_20190611_RELEASE

Core Server: V1.0.8(20190107)

SDK Core: v2.0(20180408)_WS

SDK App: v2.0(20180408)_WS

System number: 9990001-9990999

Restart Server

License

State: License

Allow count: 3000

Allow time: 9999-12-31

Machine code: FBFFF-BFFCF-CDBAA-5F1DB-0000

Register code: 9187F-B6C25-F9829-681C0-67D7

License

FAQ

Fault phenomenon	Fault reasons & exclude
Why all terminals can't login?	<ol style="list-style-type: none">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.
Why some terminals can't login?	<ol style="list-style-type: none">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 underwin7 operation system.

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