

Tonmind PA System

User Manual



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Overview

About Tonmind PA System

Tonmind PA System Lite is one of Tonmind software solution, it has IP public address system, SIP voice, RTP multicasting modules integrated, it provides an all-in-one unified IP audio solution. The IP Audio Center provides centralized IP audio endpoints management, public address, background music, intercom, emergency broadcasting, audio conferencing, IP phone call and more features. It is suitable for public safety, secure community, industry, transportation, school, health, Production Studios, Commercial & industrial Buildings and more application scenarios.

The main functions

The main functions of Tonmind PA System Lite is as below, Tonmind is keeping to update system as customer requirement and adopt new technology.

Divide regions into zones per needs

Support SIP extension broadcast in different zones and each endpoint

The internal extension can make SIP calls.

Initiate calls using SIP phones.

Support LAN RTP multicast broadcast

IP Audio Endpoints

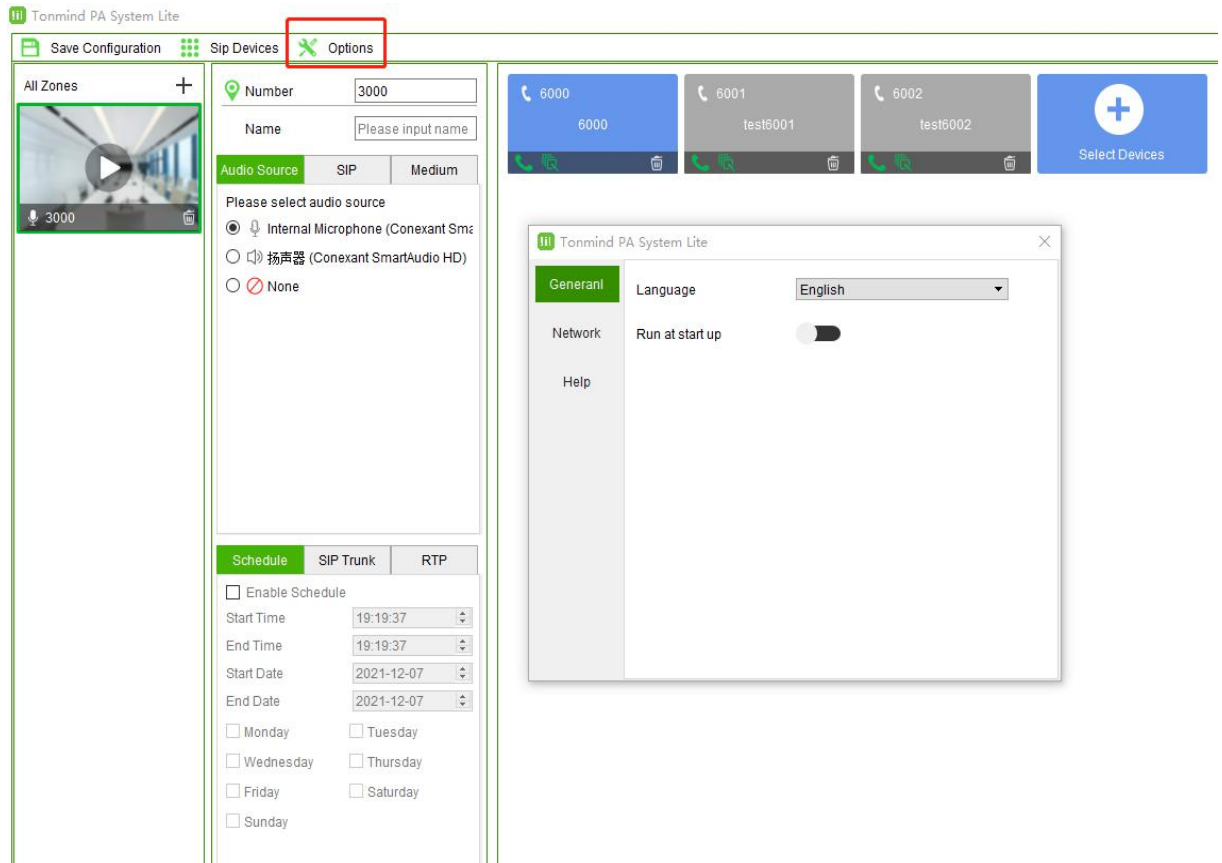
The following IP audio endpoints can be integrated into Tonmind PA System Lite:

1. Tonmind series IP SIP speakers and others
2. IP phones and soft phones

System Options Setting

After click to start the system, then go into the page as below , click the option for setting.

- General Language and run at start up
- Network Check the IP address and SIP port
- Help Check system version and contact information



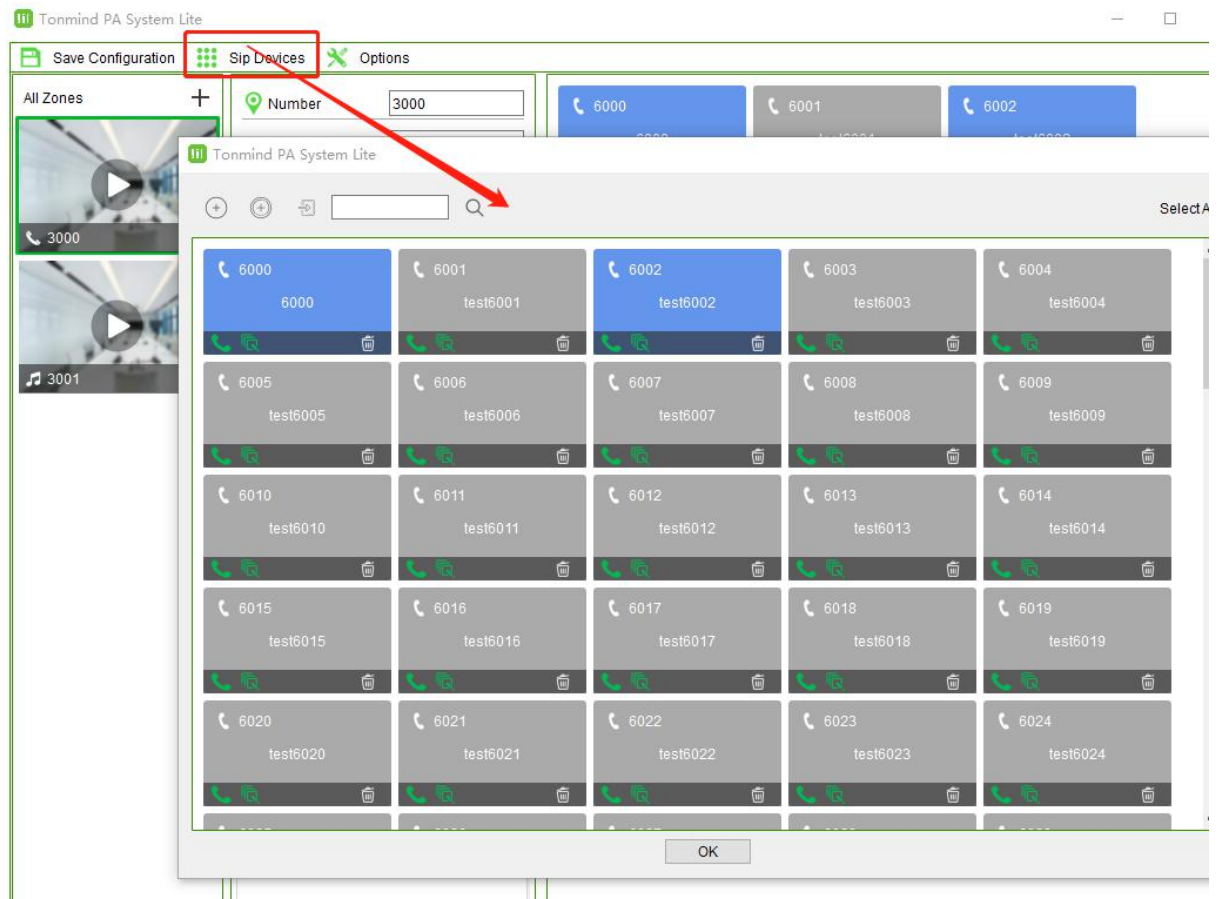
Connect PA System Lite Dispatch Console

For using Tonmind PA System Lite to control and the device like speakers and IP phone, the following settings need to be done.

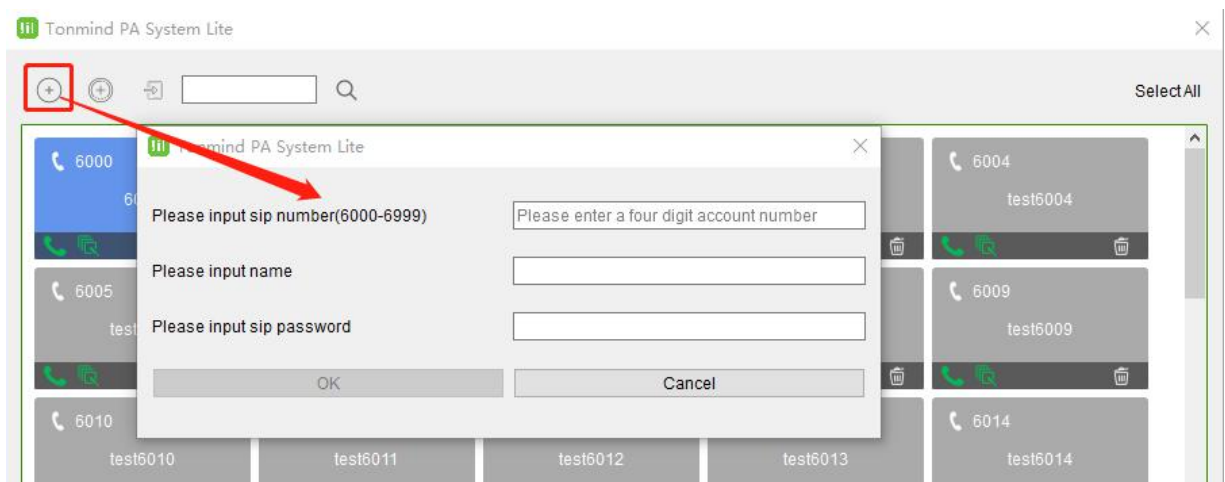
Create SIP Accounts

All IP audio endpoints to be connected to Tonmind PA System Lite support SIP protocol, and each of them needs to be configured with a SIP account.

Please click Sip device -> go to setting screen, here on this page you can create one SIP account at a time or you can bulk create SIP accounts.



To create a single SIP account, please click on the  button., then Click OK to save the speciaficaton.

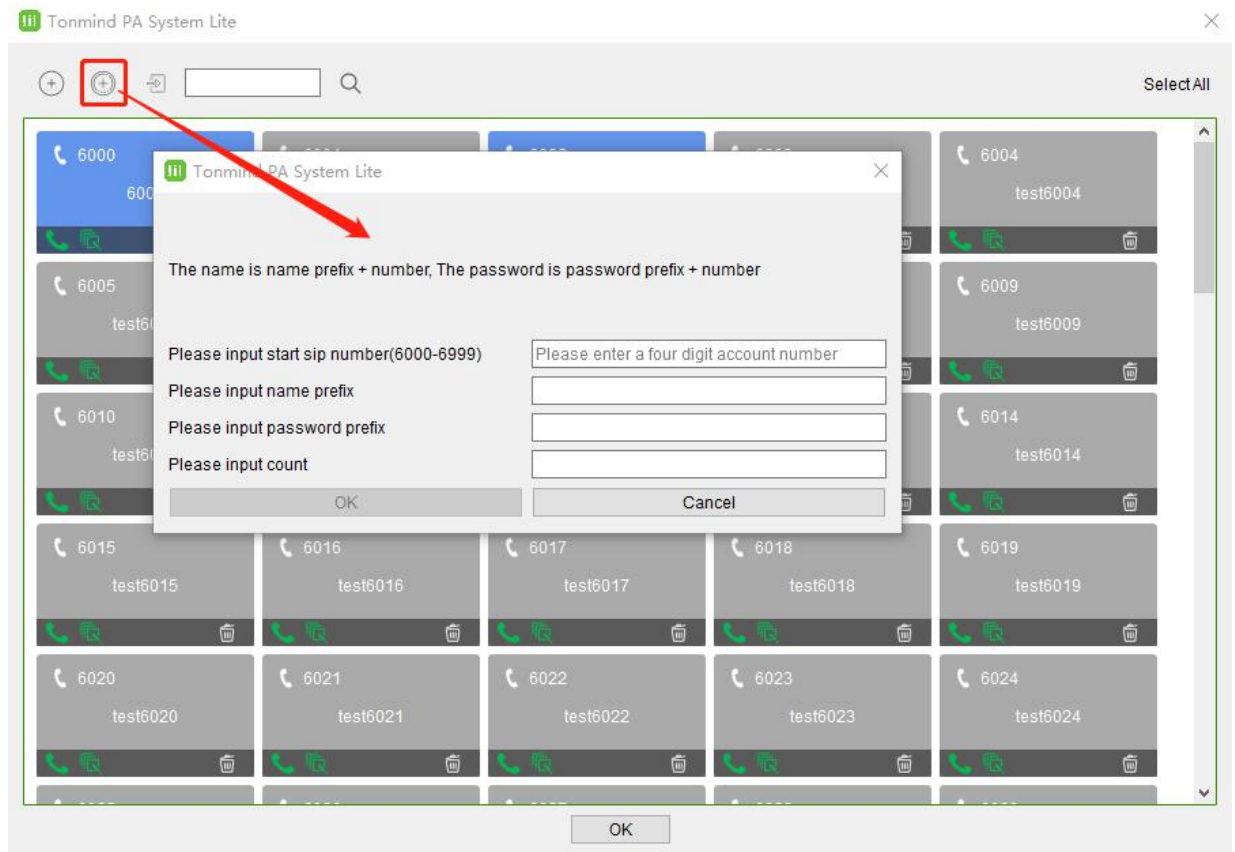


- SIP Number: The SIP account number to be used by an IP audio device, for SIP register and calling.
- Name: Creat a name for the device as need.

- Password: The password to be used for SIP register.

To Create bulk SIP numbers, please click on  button, button., then Click OK to save the speciaficaton.

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- Start SIP Number: The Start SIP account number to be used by an IP audio device, for SIP register and calling.

- Name: Creat a name for the device as need.

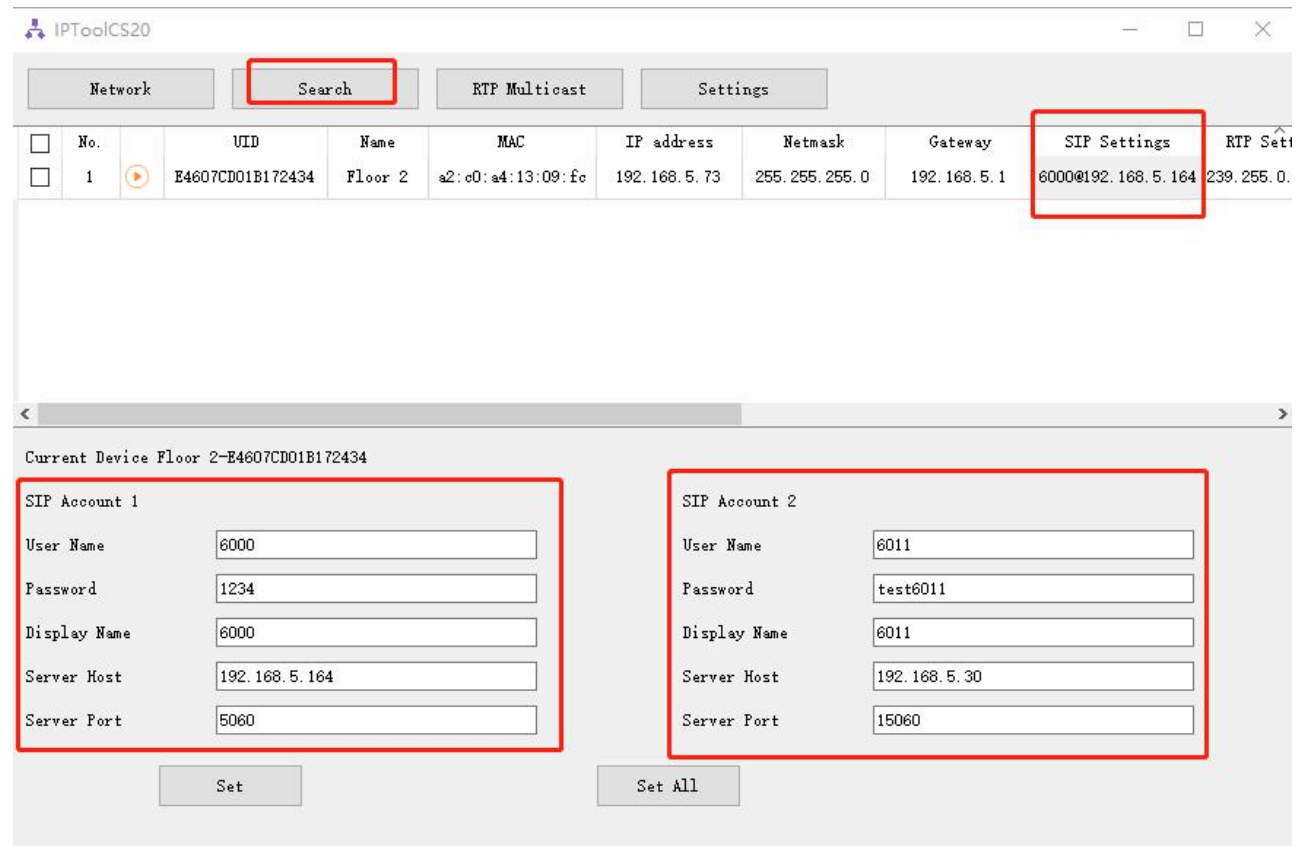
- Password: The password to be used for SIP register.

- Count: How many device SIP number you want to creat, for example if the start sip number is 6000 and the count is 5, then here will creat five sip number to be 6000, 6001, 6002, 6003 and 6004.

Setup IP Audio Devices

There are 2 steps to register an IP Audio device to the Tonmind PA System Lite. Here we take SIP-S01 Network Speaker as an example.

First use our IP Tool to set up the SIP setting for speaker SIP-S01, by using our IP tool to search the device and then click sip setting. There each device could set two SIP number.



The screenshot shows the IPToolCS20 application window. The 'Search' tab is selected, and a table lists discovered devices. The first device is highlighted, and its 'SIP Settings' are shown in a separate window.

No.	UID	Name	MAC	IP address	Netmask	Gateway	SIP Settings	RTP Settings
1	E4607CD01B172434	Floor 2	a2:c0:a4:13:09:fc	192.168.5.73	255.255.255.0	192.168.5.1	6000@192.168.5.164	239.255.0.

Current Device Floor 2-E4607CD01B172434

SIP Account 1

User Name: 6000

Password: 1234

Display Name: 6000

Server Host: 192.168.5.164

Server Port: 5060

Set

SIP Account 2

User Name: 6011

Password: test6011

Display Name: 6011

Server Host: 192.168.5.30

Server Port: 15060

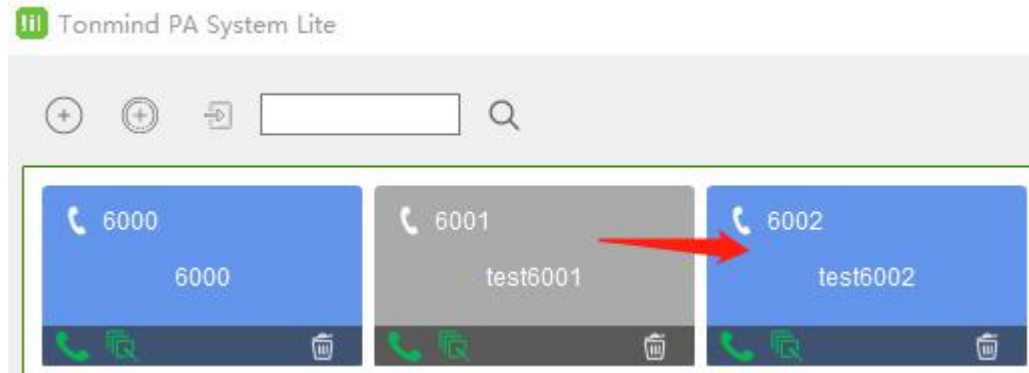
Set All

- User Name: Sip number register and calling.
- Password: The password to be used for SIP register.
- Name: Creat a name for the device as need.

Server Host: Server IP

Server Port: Default to be 5060.

When each IP Audio device sends register requests to the Tonmind PA System Lite, the device number, device type, device model and MAC address will be sent to Tonmind PA System Lite as well. Once registered, this device will be found on the Tonmind PA System Lite and also web interface, after success register, the corresponding SIP account color will change to be blue from gray.



Addition: Setup IP Phone and Soft Phone

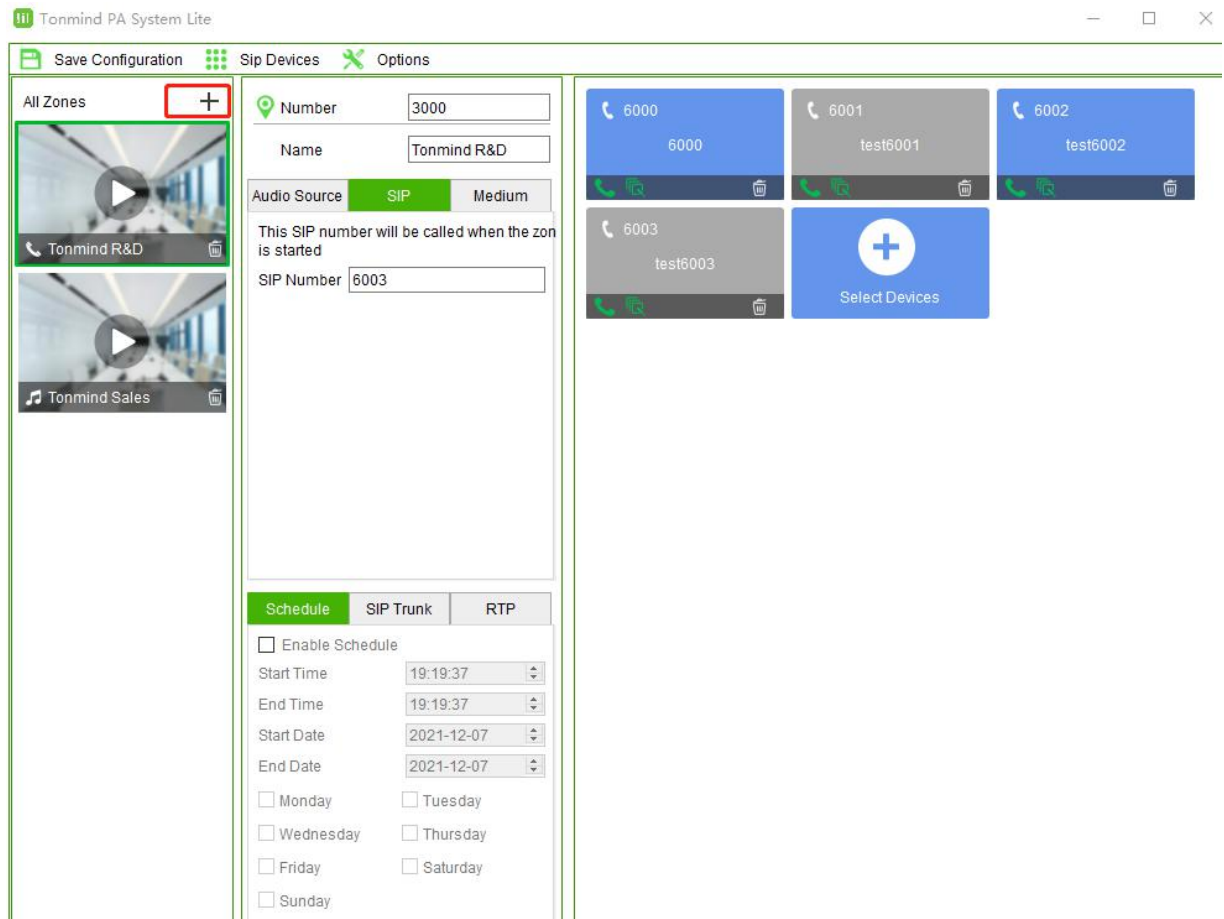
It is the same as above setting of IP Audio Devices, go into the web interface of the IP phone or soft phone, after finish the required information of SIP number, name, password, server IP and port, then it will send the message to Tonmind PA System Lite and if succeed, the correspondig server SIP account will change to blue, and it will be able for calling.

Setup Paging Zones

After registered all IP audio endpoints to the Tonmind PA System Lite, next step you have to group them. A group/zone can be the IP audio devices of a specific area or a same type of IP audio devices.

By grouping the IP audio devices, you can achieve group (zone) -based SIP paging, music, notification, etc.

To create paging groups, at the place of all zones , click the  to add zones.



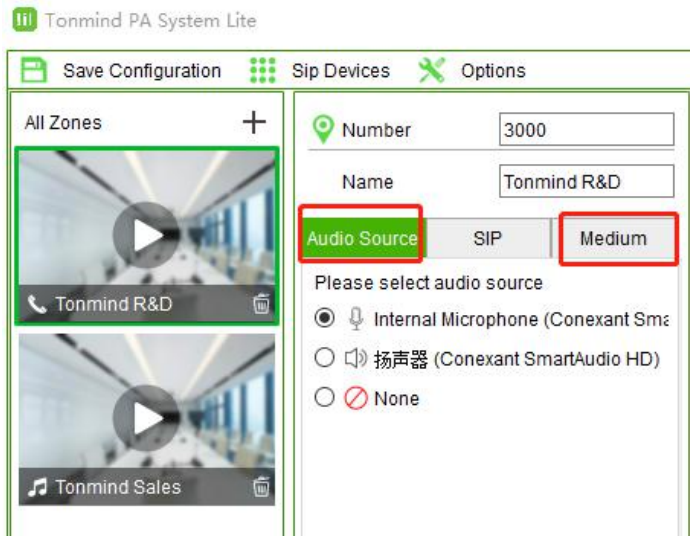
- Number: number can be dialed from an IP phone or other SIP IP audio device to make live announcements to this paging group.
- Name: A name to identify this group.
- Select Devices: Select the member devices of this group.

Zones Control

After finish creating zones, there are some introduction of each zone controlling and functioning.

Voice source option

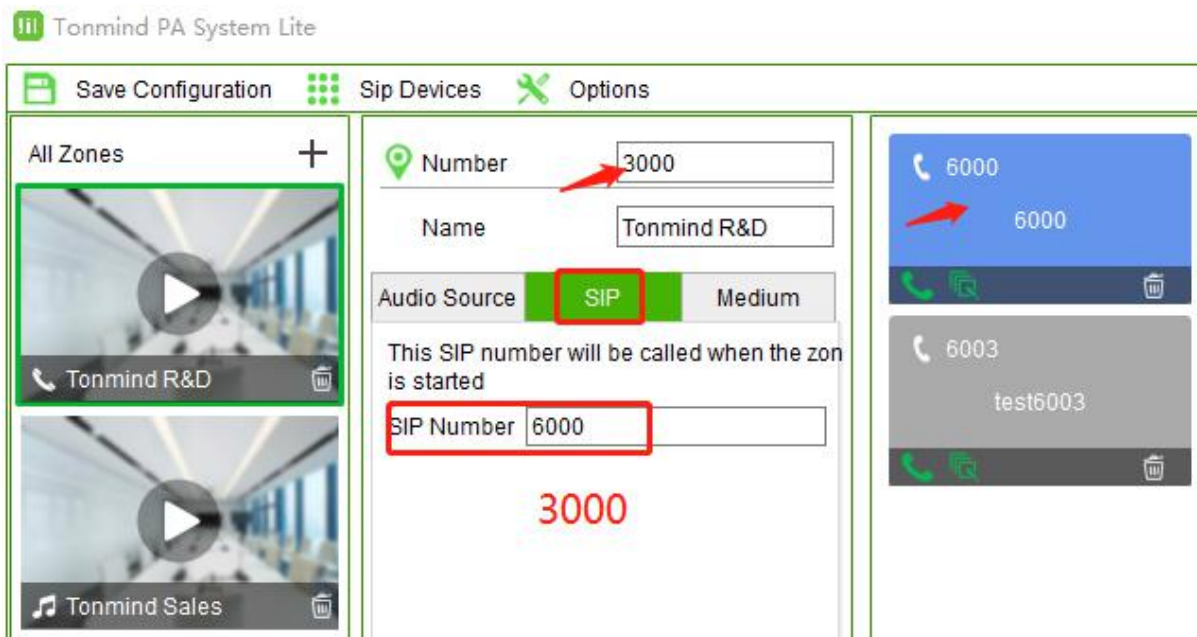
There are two kind of voice source, and Define to be two type: Audio source and Medium.



- Audio Source: two source, one is live microphone in, and the other one is the server could detect the signal from outside radio or music player like spotify and then auto playing
- Medium: Local file and support MP3

SIP function

The SIP number could be the zone number or device sip number, for single device or zones device control, and if the device is the IP phone, it is able to call them, vice versa.



Time &Schedule Set

Click the Enable Schedule button to start setting as you require, like start time, end time, date range.

Schedule	SIP Trunk	RTP
☒ Enable Schedule		
Start Time	19:19:37	
End Time	19:19:37	
Start Date	2021-12-07	
End Date	2021-12-07	
☐ Monday	☐ Tuesday	
☐ Wednesday	☐ Thursday	
☐ Friday	☐ Saturday	
☐ Sunday		

SIP Trunk Set

When need to integrate our server Tonmind PA System Lite to other IP-PBX or some other SIP server, need to set SIP trunk as below, the thirty party server IP, port and nubmer and passwork and two others as you need, then it will be connecting to other devices and server.

Schedule	SIP Trunk	RTP
☒ Enable SIP Trunk		
SIP Server	Please input sip server	
SIP Port	Please input sip port	
SIP Number	Please input sip num...	
SIP Password	Please input sip pass...	
Display Name	Please input display n...	
Expire Time	Please input expire time	

RTP Set

And if some IP device do not have SIP number, it also support RTP Multicasting to them.

Schedule	SIP Trunk	RTP
☒ Enable RTP Multicast		
RTP Address	eg. 239.255.0.0:5008	

We keep to update and develop the software system and product line to our customer.

Any questions please feel free to contact us, thanks.

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