Tonmind PA System Pro 2.0

User Manual V2.1.0



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1. Overview

Tonmind PA System Pro 2.0 is an audio broadcast software with built-in SIP server. It has both server & client ends, thus supports multi-user management. The system enables a maximum of 1000 zones, and each zone is flexible to arrange Tonmnid IP speakers, IP door phones, and any SIP devices for group paging. It creatively incorporates ONVIF CCTV, combining it with ONVIF speakers, making it perfect for security projects and various application scenarios. In sessions, it can achieve meeting function for each connected SIP extension, providing an all-in-one unified IP audio solution. The system supports SIP extension broadcasting, allowing playback of various audio sources, including SIP calls, live radio, local media players, universal windows media players (for example, Spotify, iTunes, VLC, etc.), also supports TTS (text-to-speech) for text messages. The system is ideal for use in School PA Systems, Commercial PA Systems, Transportation PA Systems, Hotel PA Systems, Health Care PA Systems, and more.



Tonmind

Main functions:

- Efficient manageable audio system.
- Video monitoring and management in zones.
- Priority broadcasting in each zone.
- Support group meeting.
- Support RTP Multicast, TTS, live radio, playlist.
- Support a maximum of 1000 SIP extensions.
- Support built-in bell ringing.
- Multi zones management.
- Multi kinds of audio streams.
- Flexible schedule configuration.
- Compatible with all windows music players.
- Provide all-in-one unified IP audio solutions.
- Manage and control various PA System excellently.

2. Sever Setting

After click to start Pro server, then go into the page as below.

- General: Language, run at start up, port option and also HTTP API setting.
- System: Check the IP address, SIP sever info, audio/video codec and RTP port.
- About: Check system version, machine code and contact information.

Tonmind I	PA System Pro Server		-	×
General	Local IP	192.168.5.213 Select		
System	Local Netmask	255. 255. 255. 0		
	SIP Server Port	5060		
About	SIP Trunk Port	5080		
	NAT IP	192. 168. 5. 213		
	Audio Codec Settings			
	🗹 OFUS 🗹 G722	🥑 PCMU 🥑 PCMA		
	Video Codec Settings			
	🗹 VP8 🗹 H264			
	RTP port 16384 - 32768			
		Save		

2.1 How to Get a License Key

- Enter option- "about".
- Copy the machine code to us by e-mail: sales@tonmind.com or contact Tonmind sales directly.
- We'll send a license key to you after receiving the machine code. Active it, and the license will work.

Sessions	Server	1 About	
M Audio Sources	🔯 General	Version	2.1.0
✓ SIP Devices	💣 System	Build Date	20231019
Video	1 About	Contact Vs	sales@tonmind.com
LUSERS	Logs	Machine Code	54M2611EK-E545-660G7-E3P5N-39H8ID8G8352 Copy
	A Login Logs	Activation Status	Activated
Server 🗧	((0)) Broadcast Logs	License Key	/54M2611EK-E545-660G7-E3P5N-39H8ID8G8352.key
	Dperation Logs		
		Ok	Cancel

2.2 How to Check the System Log

We can check login, broadcasting and operating log in this part.

🗖 Sessions	Server		Username	Nickname
Audio Sources	🔯 General	1	admin	admin
 SIP Devices 	💞 System	2	admin	admin
Video	About	3	admin	admin
LUSers	Logs	4	admin	admin
Server	📯 Login Logs	5	admin	admin
	((0)) Broadcast Logs	6	admin	admin
	Dperation Logs			

3. Client setting

3.1 Login Admin Account

After start Pro server, there will come out a default client account, login with the info.

Name: admin

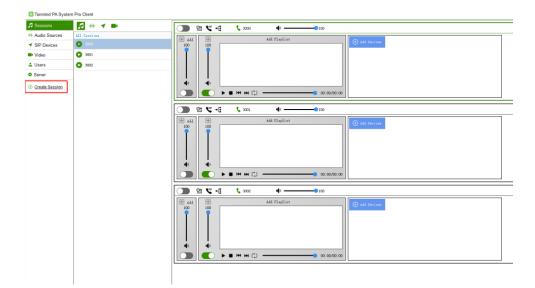
Password: admin

Tonmind PA System	Tonmind PA System Pro Client 😥			×
₽ & ⊕	192. 168. 5. 213 admin		2	
	Login			

4. How to Create a Session

When customers want to create a zone or group for broadcasting, SIP calling or meetings, they can create a session, and new zones will be created as below. In these zones, we can add a maximum of 1000 SIP devices, 16 CCTV videos streams, and different audio sources such as real-time speaker/microphone, live radio, RTP and TTS. The session can also connect to other SIP sever, supporting output by RTP and HTTP. During the session, a meeting can be created for all SIP devices connected.





4.1 How to Add Audio Source and Playlist

- Speaker: It can play universal windows media player (for example, Spotify, iTunes, VLC, etc.).
- Microphone: It's a live microphone which you can speak and make announcement directly on the PC.
- Live radio: Search and copy the live radio URL from the Internet.
- RTP multicast: Use a same RTP address here and different IP speakers to page.

Tonmind PA System Pro Client			-		×
Please Select Input	🕀 Create Live Radio	🕂 Create RTP	🕂 Create	TTS	
◀) 扬声器 (Realtek(R) Audio)					
麦克风阵列(英特尔@ 智音技术)					
Т ття					
T TIS					
((0)) Live Radio					
-[RTP Multicast					
Select					
Defect					

 TTS: Input a text message and save it; it can be turn into an audio file played on the section. Currently, we offer a choice of two languages: Chinese and English. Set the voice rate and volume for broadcasting. The delay time determines how long it will be played after the session.

Tonmind PA System Pro Client	:
Please Select Input	③ Create Live Radio ④ Create KTP ④ Create TTS
 ・ 扬声器 (Realtek(R) Audio) ・ 表克风阵列 (英特示® 智音技术) ・ ・ ・	+: Text To Speech Image: TTS Yoice : Microsoft Huihui Desktop - Chinese (Simp volume) (?) Rate : 0 (*) Volume : 0 (*) Delay : 100 (*) Delay : 100 Seconds T Text : To be or not to be, this is a question.
	Save
Select	

• Playlist

Create a playlist: Click to add media, then we can upload mp3 files like music or any audio files from local PC.

Sessions	Speaker	5	📀 Add Media Name : Playlist 1	â
Audio Sources	📢 扬声器 (Realtek(R) Audio)	No.		Duration
 SIP Devices 	Microphone			
Video	麦克风阵列(英特尔@ 智音技术)	1.		03:55
LUSers	TTS	2.	/media/Taylor Swift - Blank Space.mp3	03:51
	T IIS	3.	/media/Taylor Swift - Love Story.mp3	03:54
Server Server	T TTS	4.	/media/Westlife-beautiful in white.mp3	00:31
Create Playlist	Live Radio	5.	/media/张靓颖-我的梦.mp3	04:04
Create Live Radio	((0)) Live Radio			
	RTP			
Create TTS	-[RTP Multicast			
Create RTP	Playlist			
	🗊 Playlist 7			
	📑 Playlist 1			

4.2 How to Add SIP Devices in Session

1. Click to "Add device", there will comes to the following page.

2. When create new device and choose auto created, that will have a default account immediately, you can keep this step and create new SIP account one by one.

Tonmind PA System Pro Client		_		×
Please Select Device	🕂 Create New Device (Add Multiple Devices	E Impor	t Devic	es
SIP Devices 6000 6001 6002 6003 6004 6005 6006	 ✓ Sip Device ▲ SIP number(6000-6999) 6006 E SIP Name 6006 A SIP password 6006 	Cancel		
Select				

3. When you want to add more SIP accounts at one time, choose add multiple devices.

- Start number: e.g.: 6000, the first devices will be 6000 and later: 6001, 6002...
- Device count: The number you put will be how many accounts you want to add,
- Name prefix: Put any prefix to define each device;
- Password prefix: Each password will start with this prefix.



Tonmind PA System Pro Client				_		×
Please Select Device	(+) Create 1	New Device	+ Add Multiple Devices	🗲 Impor	t Devic	es
SIP Devices F6000 F6001 F6002 F6003 F6004 F6005 F6006	E SIP N	unber (6000–6999	F6000 F6000	Cancel	×	
F6007 F6008 F6009	ເ St ເ De ອີກ	d Multiple Dev art Number vices Count ne Frefix ssword Prefix	6000 10 F			
Select						

4. Import device: Use a document to add bulk accounts. Please select files; each line should be in this form: Name + SIP number+ password, e.g., User:6000:pwd6000.

Tonmind PA System Pro Client				-		×
Please Select Device		🕂 Create New Device	🕀 Add Multiple Devices	E Impor	t Device:	s
SIP Devices						-
	Tonmind PA S	ystem Pro Client			- ×	:
	Please select fi	les, Each line is in Name	+ SIP number + password, e;	g. Vser;6000	; pwd6000	,
	5	Select file	Uplos	ad		
Select						

4.3 How to Add Videos in Session

1. Enter video section, use search function, then we'll find videos and ONVIF speaker in the list;

- 2. Connect a Onvif IP camera by its username and password;
 - Tonmind PA System Pro Client

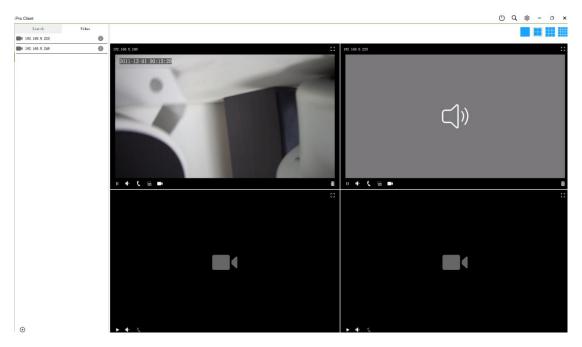
🎜 Sessions	Search	Video
♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦	1 92. 168. 5. 249	\checkmark
✓ SIP Devices		
■• Video		
🛓 Users		
Server 🔅	_	
⊕ <u>Create Video</u>		
Tonmind PA Sys	em Pro Client	- ×
🖉 Url http	//192.168.5.249:80/onvif/	device_service
💷 Username admi	<i>۱</i>	
🔒 Password admi	<i>۱</i>	
Ok		Cancel

3. SIP device in the picture below means that we can put the SIP number of a connected IP speaker on it. Then users can call directly through the video;

4. Select any one of the streams and save ok key, then the video has been well connected; in the same way, we can add ONVIF speaker as well;

Tonmind PA System Pro Client					
Name	192. 168. 5. 249				
🥢 Vrl	http://192.168.5.249:80/onvi	f/devia	e_servi	ce	
📰 Username	admin				
🔒 Password	admin				
📞 Sip Device	6000				
Streams					
media_profile1					
media_profile2					
media_profile3 670148312284					
TestMediaProfil					
testName	2				
Ok		Cancel			

5. Pull the connected audio and video to the black area on the right size, then we can monitor the video and speaker as below.



6. We can also create the video by put its URL, find this URL from VMS manager or each CCTV'S default IP address.

① Create Video					
Tonmind PA	Syste	em Pro Client		-	×
🖉 Url					
💷 Vsername	admin				
🔒 Password	admin				
)k		Cancel		

7. Turn back to session and add videos on the right side in the group, we can monitor the videos and IP speakers together.

Tonmind PA Syster	n Pro Client		0 Q @ - 🗆 X
5 Sessions	J ++ ▼ 🗖	□	Priority : 1 v 🛧 🗙
Audio Sources SIP Devices Video Users Server Create Session	X11 Videos 15 102 108 5 200 16 102:108 5.249	Oracle Oracle<	ī
			Priority : 1 v) † x
			briety: 1 → ↑ ×

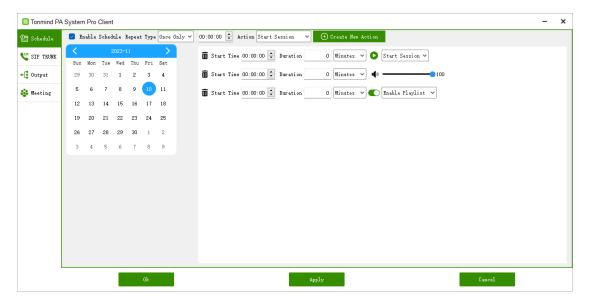
4.4 How to Set a Schedule

1. Find this logo in session, enable section, we can choose repeat type, start time and action.

2. Start/stop session: It's able to turn on/off all the setting in the session.

3. Enable/disable playlist: It's able to turn on/off the playlist in the session.

4. Set volume: Adjust the volume in a certain time, like in midnight, the music can set to zero.



4.5 How the Session Register to SIP Sever

1. Enable the SIP trunk, input effective SIP infos;

2. The SIP sever can be any other PBX, or pa pro built-in IP sever, below example is the system built-in sever.



Tonmind PA	System Pro Cli	ient		- ×
🔠 Schedule	🗹 Enable SI	P Trunk 📀 Status		
🖤 SIP TRUNK		192. 168. 5. 213		
	? Port	5060		
•C Output	💄 Account	6008		
🔹 Meeting	💷 Username	6008		
-	🔒 Password	6008		
	😇 Expire	100000		
		Ok	Apply	Cancel

4.6 How to Create an Output and Meeting

1. Enable RTP multicast: Enter a same RTP address here, then we can use other RTP tools like IP tool or audio managers, to broadcast the session.

2. Enable http stream: We can use another URL to manage the broadcast of this session.

3. Enable meeting: All SIP devices in this session can have a meeting, everyone can communicate with each other.

Tonmind P/	System Pro Client		- ×
🞦 Schedule	🥑 Enable Rtp Multicast		
🜿 SIP TRUNK	239.255.0.0:8000		
• Output	🥑 Enable Http Stream		
👙 Meeting	http://192.168.5.213:9191/stream/3002		
	Ok	Apply	Cancel

4.7 Priority in Sessions

It is used to define the zone paging's priority. There are 1-9 ranks for zones, the higher the number, the higher the rank.

How can we understand this function? For example:

1. We have configured 3 zones: office (3000), meeting room (3001), and control center (3002). We then assigned priority ranks to each zone ranging from 1 to 3.

2. When all three zones are registered and have added the same SIP device account (6677) while playing music simultaneously, the SIP device (6677) will prioritize playing the music from the office (3000) due to its highest priority number (3).

All Sessions 3 3000 (cfrice) 3 3001 (neeting room) 3 3002 (control center) 3 3002 (control center) 4 Add 4 Add 100 1. Tamas Vells - Valder Fields. np3 01:12 0 00/25/02:38 C 0077 O Add Devices Friority : 2 1 C 0077 O Add Devices C 0077 O Add Devices	🗗 🚸 🔺 🔳	🕥 🖄 🌿 📲 📞 3000(offic 🐠 ——— 26	Priority : 3 🗸 个
Image: Second	3000(office) 3001(meeting room)		
Add Image: Constraint of the second seco		③ Add ■ ● <td>Priority : [₂ v]↑</td>	Priority : [₂ v]↑
		Image: Add low	Priority : ⊥ ✓

5. How to Add New Users/Clients

- Administrator: The admin account is the top manager and cannot be edited or changed. It has the authority to manage all accounts below. A regular administrator can manage accounts of other operators and observers.
- Operator: It can only manager its own account's content.
- Observer: It can only check their account information but has no right to change any details. We can change the password once a new account is created; the default password: 1234.

Tonmind PA System	Pro Client			
5 Sessions	Administrator	:	Vser	🔓 Change password 🏾 🗴
♦ Audio Sources	Sg. admin	9	Username	e user3
✓ SIP Devices	P _@ user7		Phone	1590312345
Video	P∰ user8	9	Туре	Operator v
💄 Users	₽ _{\$\$} user9	5	Session	3002 × 3001 × 3000 × (+)
Server Server	Operator			
0.00000	🔍 user3			
⊕ <u>Create User</u>	Q user5			
	Observer			
	Q user4		_	
	A user6			Ok Cancel