

Hikvision IP Speaker User Manual

1. Solution Introduction

1.1 Introduction

In traditional security area , users can only view the preview picture in real time through the camera or retrieve evidence video afterwards, making it difficult to intervene immediately. Through the cooperation of video surveillance and the IP Speaker, this solution can not only monitor and retrieve video footage in real time, but also broadcast immediately through the intercom to intervene and deter wrongdoing in the monitored areas.

The IP Speaker can be connected to HikCentral platform directly, and alarm linkages can be configured on the platform to play audio or intercom as needed.

1.2 Solution Hardware Requirement

IP Speaker: DS-PA0103-B

IPC: Any IPC

1.3 Solution Software List

HikCentral version : V1.6.0015

IP speaker Finder : Hikvision IP Speaker Finder V1.2

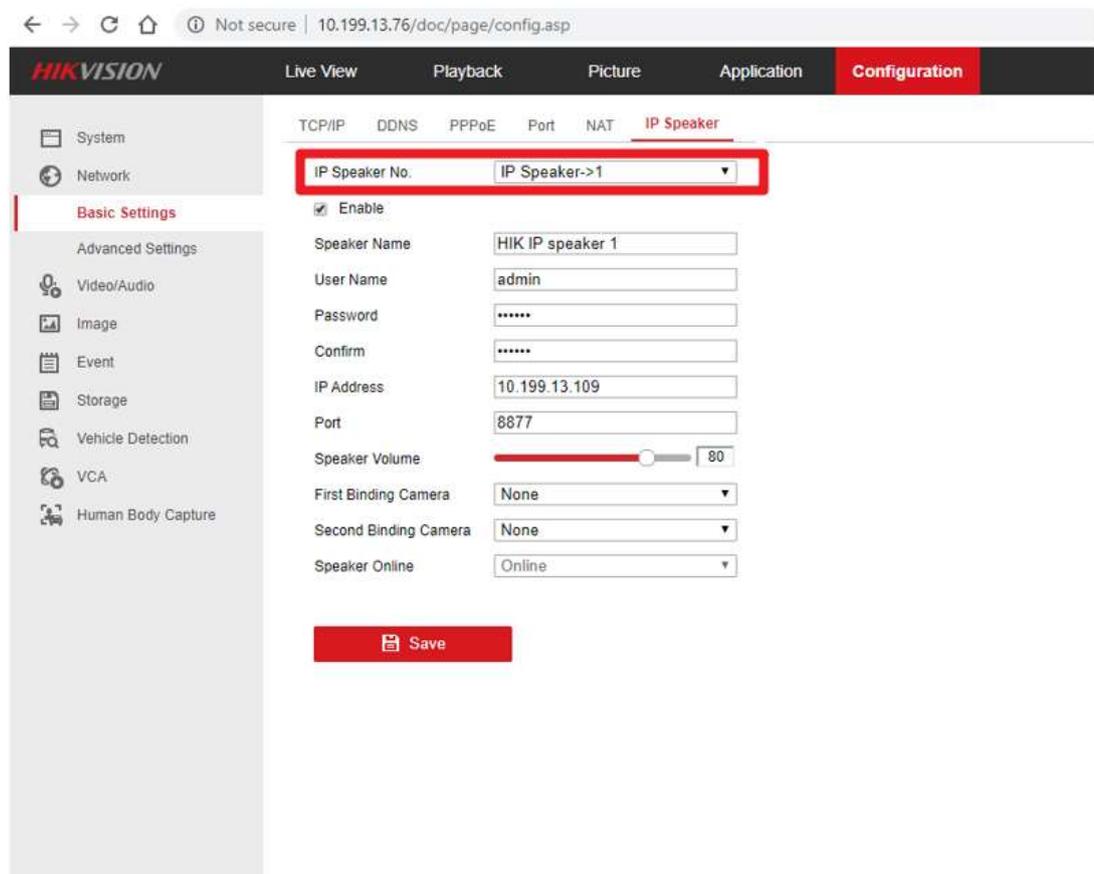
IP speaker Audio Tool

All the device firmware and software is included in the solution package.

2. Solution functions and Device Configuration for One-site Solution (NVR Solution)

2.1 Basic Speaker Configuration on NVR Webpage

1. Log into the NVR Web Client and go to Configuration → Network → Basic settings → IP Speaker.
2. By selecting the IP Speaker drop down list, an IP speakers' status can be checked.



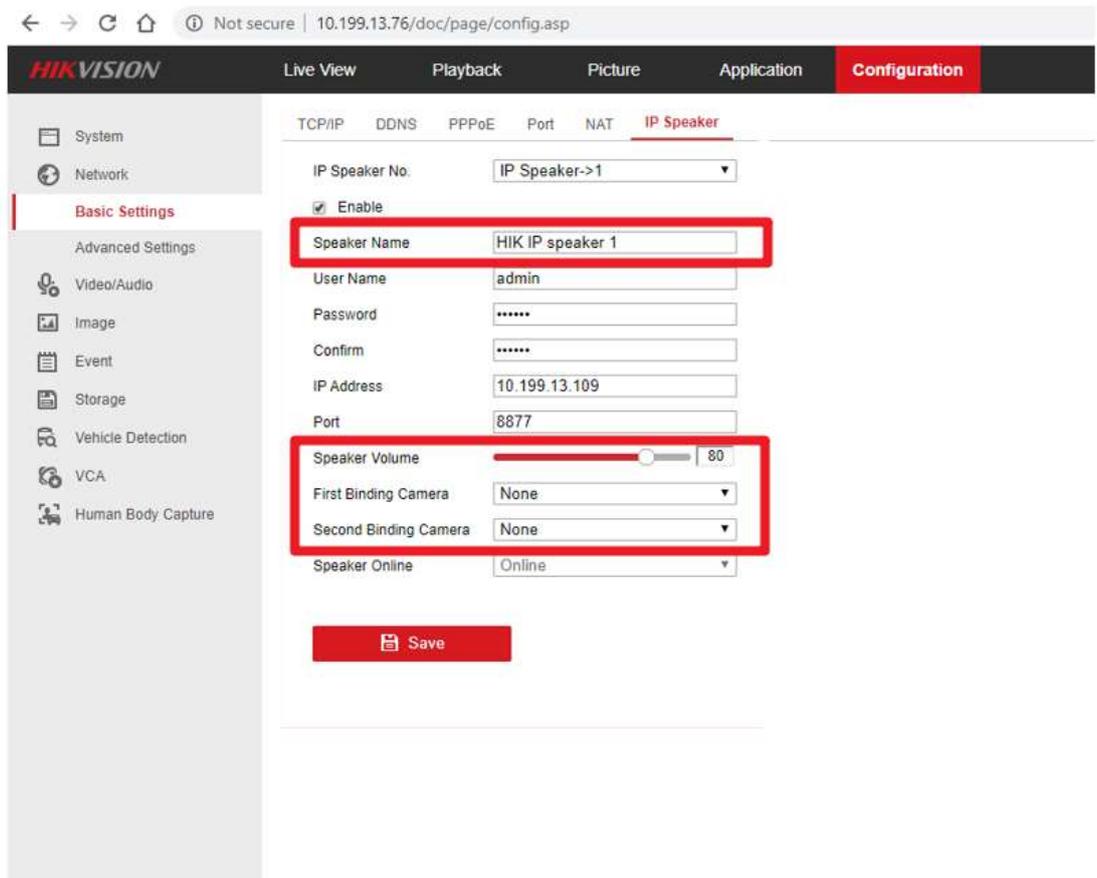
The screenshot shows the NVR Web Client configuration page for IP Speaker settings. The browser address bar indicates the URL is 10.199.13.76/doc/page/config.asp. The page has a navigation bar with tabs for Live View, Playback, Picture, Application, and Configuration. The Configuration tab is active, and the IP Speaker sub-tab is selected. The left sidebar shows the navigation menu with System, Network, and Basic Settings (selected) under Advanced Settings. The main content area shows the IP Speaker configuration form with the following fields:

Field	Value
IP Speaker No.	IP Speaker->1
Enable	<input checked="" type="checkbox"/>
Speaker Name	HIK IP speaker 1
User Name	admin
Password	*****
Confirm	*****
IP Address	10.199.13.109
Port	8877
Speaker Volume	80
First Binding Camera	None
Second Binding Camera	None
Speaker Online	Online

A red box highlights the IP Speaker No. dropdown menu. A red Save button is located at the bottom of the form.

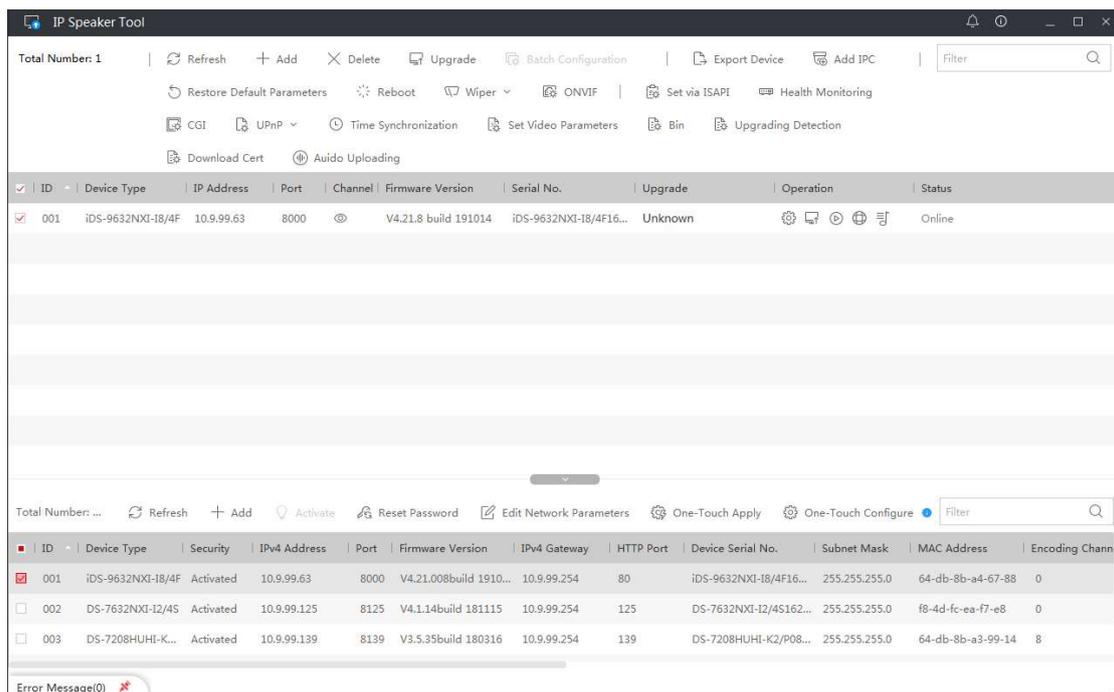
3. The IP speaker Name, Volume and 'Bounded Camera Channel' can be configured on this page.

Note: IP Speaker volume needs to be set **above 70** to provide sound.

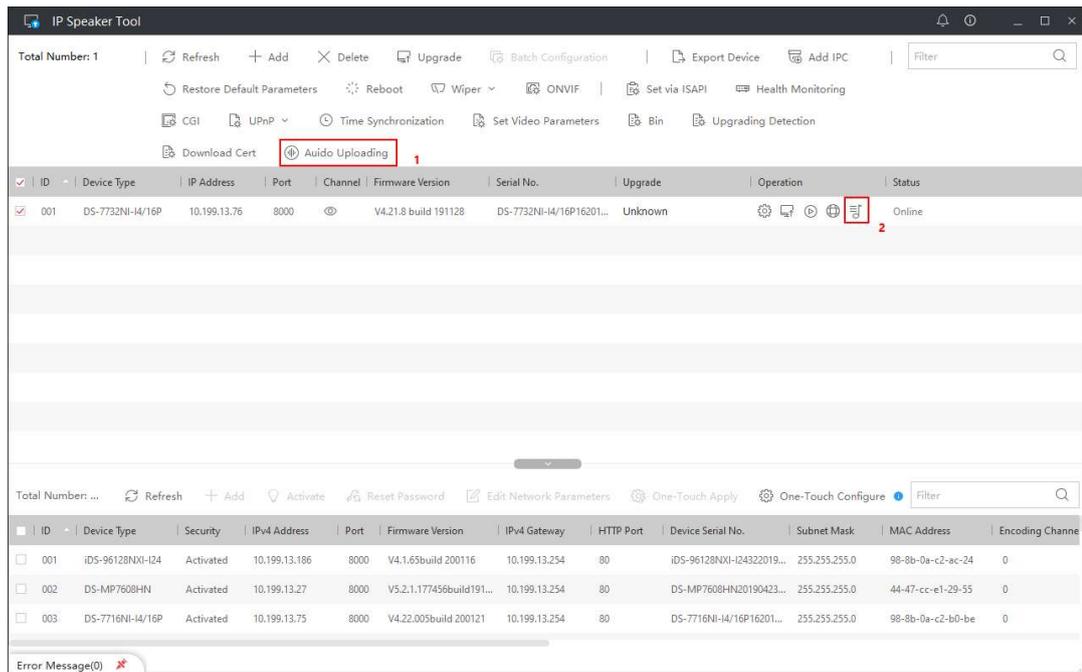


2.2 Upload Audio File to NVR

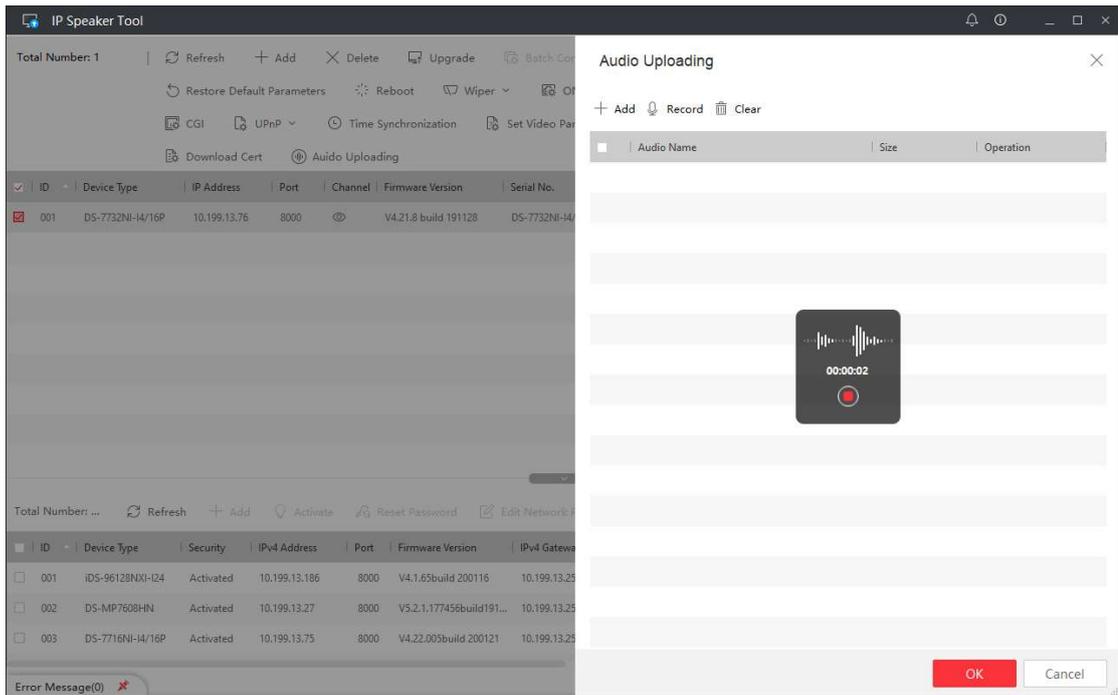
1. Install Hikvision IP Speaker Tool and run it.
2. Add the Target NVR to IP speaker.



3. Click **【 1 Audio Uploading 】** to do operational recording, Audio batch distributed function. Click [2 Audio data] in the list of devices to view the results of audio files issued, the list of audio files on the device, and to delete the audio files on the device.



4. Click [Audio Uploading] to upload local audio file, or to record audio files to the NVR. By default, the recording file is saved in the directory C:/users/public/IP speaker Record. Click the file path in the recording window to open the path. At the same time, after the end of recording, the current voice file will be automatically added to the list issued by the device and checked. The name of the voice file can be edited and modified here[?].



5. Add NVR device to the device list and check it. Click the audio delivery button on the home page to access the audio delivery interface. Select [Add local file or recording], add audio to the send list, and start sending audio. The audio name can also be edited.

Audio Details ×

Upload Tasks
Device Audios

🗑️ Clear

Audio Name	Uploading Complete Time	State	Operation
IP_SPEAKER_RECORD_7...	2020/02/21 17:03:45	Uploading Completed	×
audio_testing.mp3	2020/02/21 17:03:46	Uploading Completed	×

6. The device audio management interface displays audio files on the NVR, and an audio file can also be deleted from the device through this page.

Audio Details ×

Upload Tasks
Device Aud...

× Delete
 ↻ Refresh

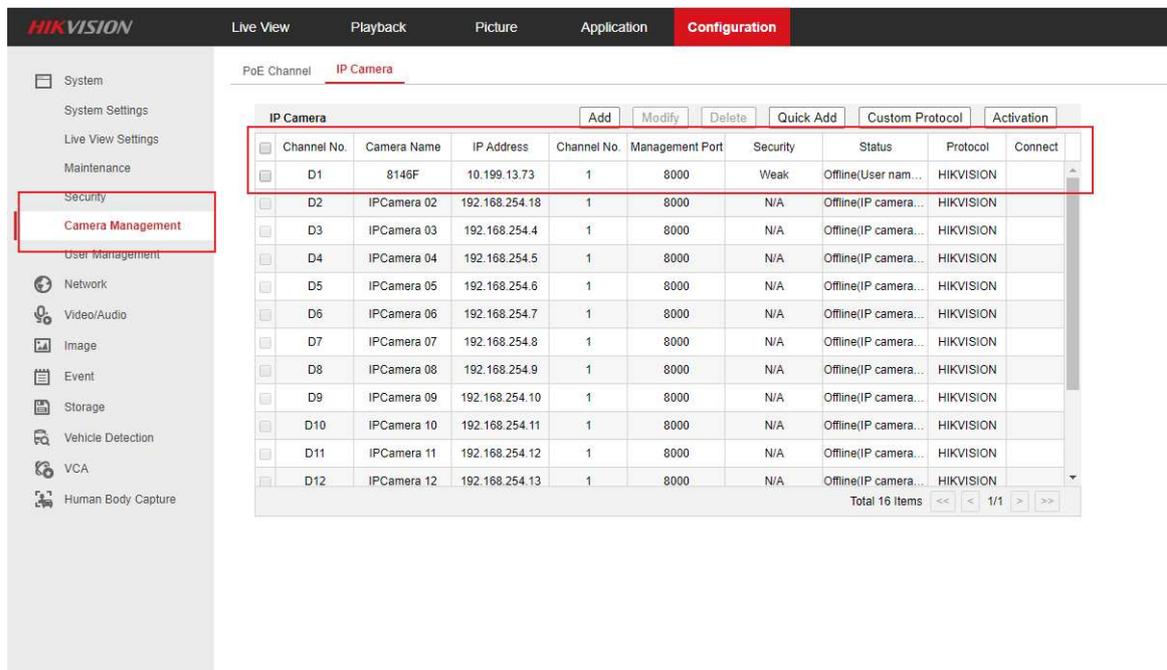
<input type="checkbox"/>	Audio Name	Operation
<input type="checkbox"/>	zaocao	×
<input type="checkbox"/>	IP_SPEAKER_RECORD_4	×
<input type="checkbox"/>	IP_SPEAKER_RECORD_5	×
<input type="checkbox"/>	IP_SPEAKER_RECORD_7	×
<input type="checkbox"/>	greentown	×
<input type="checkbox"/>	audio_testing	×

Note: If HikCentral is used, you need to refresh NVR resources in the Physical View module of the Web Client to synchronize the audio to **the HikCentral** after uploading.

2.3 Event Linkage

Note: Currently we support audio linkage with motion detection, alarm input, intrusion, line crossing, region entrance detection, and region existing detection

1. Go to NVR System --> Camera management to add camera.

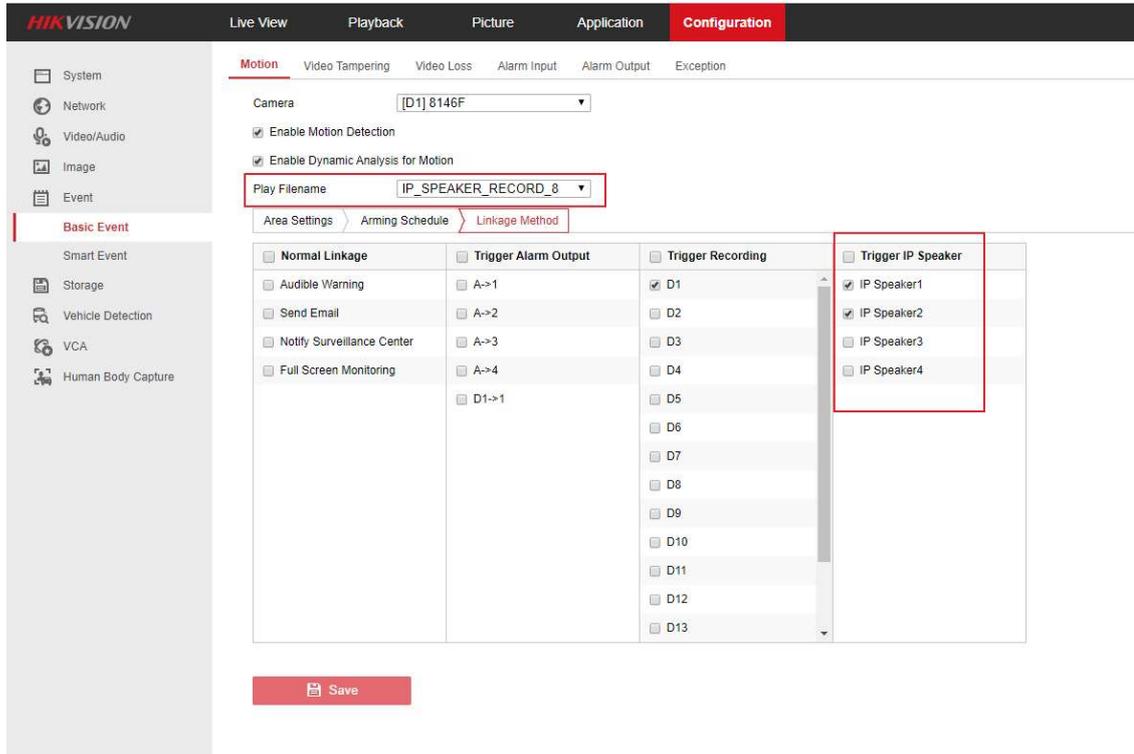


The screenshot shows the Hikvision Web Client interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', 'Application', and 'Configuration'. The left sidebar menu has 'Camera Management' highlighted under the 'Security' section. The main content area displays the 'IP Camera' management table with the following data:

Channel No.	Camera Name	IP Address	Channel No.	Management Port	Security	Status	Protocol	Connect
D1	8146F	10.199.13.73	1	8000	Weak	Offline(User nam...	HIKVISION	
D2	IPCamera 02	192.168.254.18	1	8000	N/A	Offline(IP camera...	HIKVISION	
D3	IPCamera 03	192.168.254.4	1	8000	N/A	Offline(IP camera...	HIKVISION	
D4	IPCamera 04	192.168.254.5	1	8000	N/A	Offline(IP camera...	HIKVISION	
D5	IPCamera 05	192.168.254.6	1	8000	N/A	Offline(IP camera...	HIKVISION	
D6	IPCamera 06	192.168.254.7	1	8000	N/A	Offline(IP camera...	HIKVISION	
D7	IPCamera 07	192.168.254.8	1	8000	N/A	Offline(IP camera...	HIKVISION	
D8	IPCamera 08	192.168.254.9	1	8000	N/A	Offline(IP camera...	HIKVISION	
D9	IPCamera 09	192.168.254.10	1	8000	N/A	Offline(IP camera...	HIKVISION	
D10	IPCamera 10	192.168.254.11	1	8000	N/A	Offline(IP camera...	HIKVISION	
D11	IPCamera 11	192.168.254.12	1	8000	N/A	Offline(IP camera...	HIKVISION	
D12	IPCamera 12	192.168.254.13	1	8000	N/A	Offline(IP camera...	HIKVISION	

The table footer indicates 'Total 16 Items' and includes pagination controls for 1/1 page.

2. Go to Event setting → Linkage Method and tick 'Trigger IP speaker'. The audio file can also be selected.

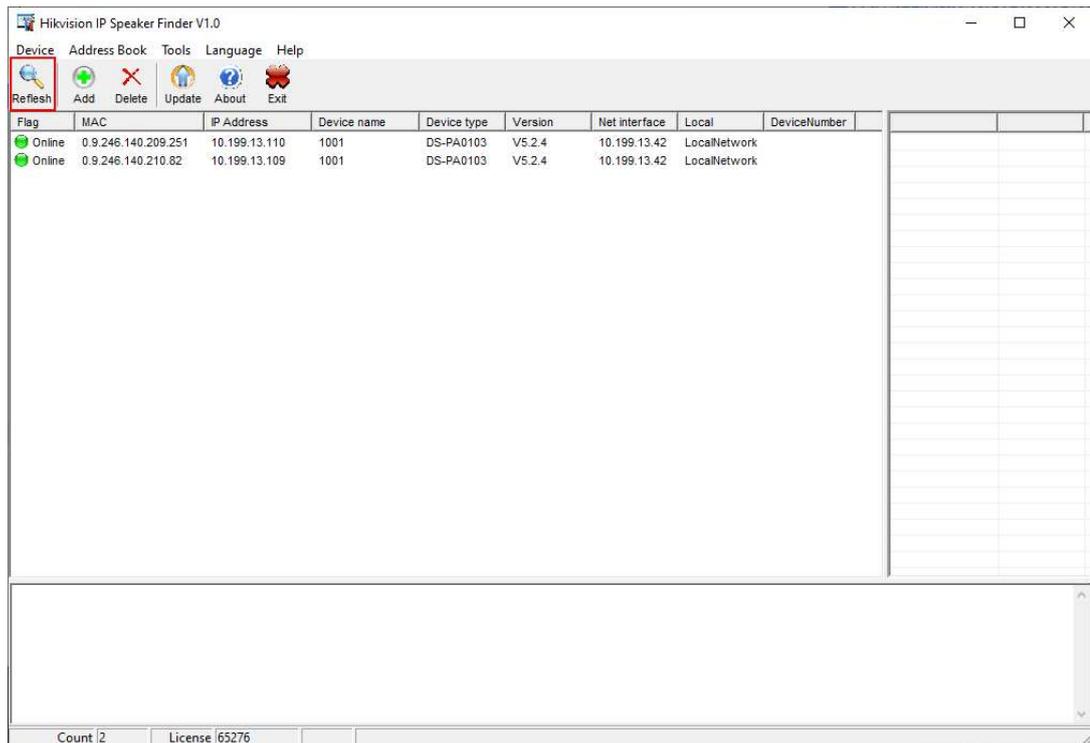


3. Solution Functions and Device Configuration for Multisite Solution (HikCentral Solution)

3.1 IP Speaker Configuration

3.1.1 Basic IP Speaker Setting

1. Use the IP speaker Network Finder, click the [refresh] button to find the IP address of the speaker device in the same LAN.



Double-click the IP Speaker device in the selected list, click [BaseParam] to view and change the device information and network parameters.

Note: The default IP Speaker password is 1234

Property DS-PA0103

DS-PA0103 Parameter settings

Information
BaseParam

Device information

DeviceNumber	1001
DeviceName	1001
UserName	admin
Password	*****

IP Address

DHCP Enable Disable

IP Address	10.199.13.110
Netmask	255.255.255.0
Gateway	10.199.13.254

DNS

DNS Address Enable Disable

Primary DNS	192.168.1.1
Secondary DNS	192.168.1.2

Setting of server

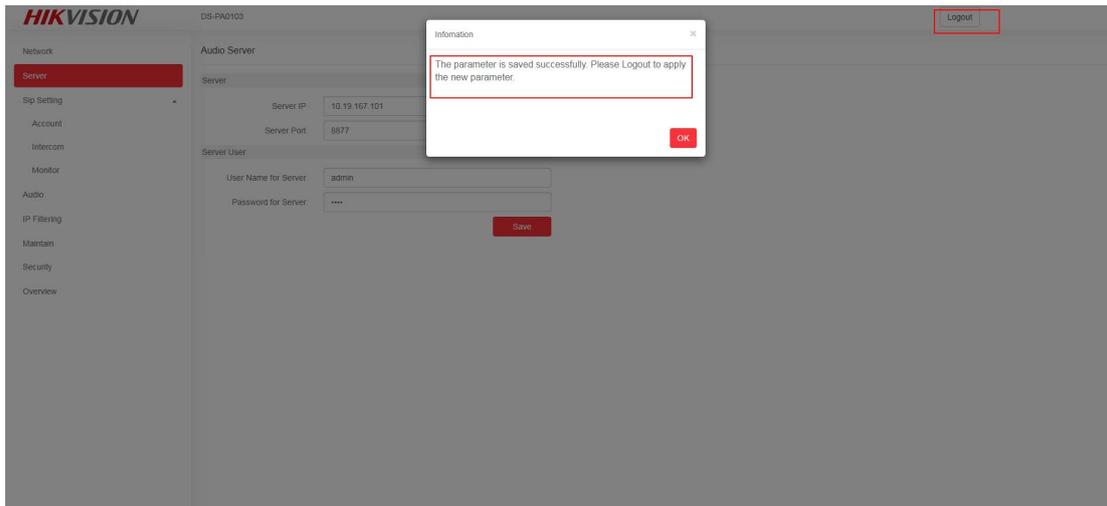
Account	
Password	
Port	8877
Primary server	10.199.13.96
Secondary server	

Authentication by both

Default Save to default Export param Import param Save Cancel

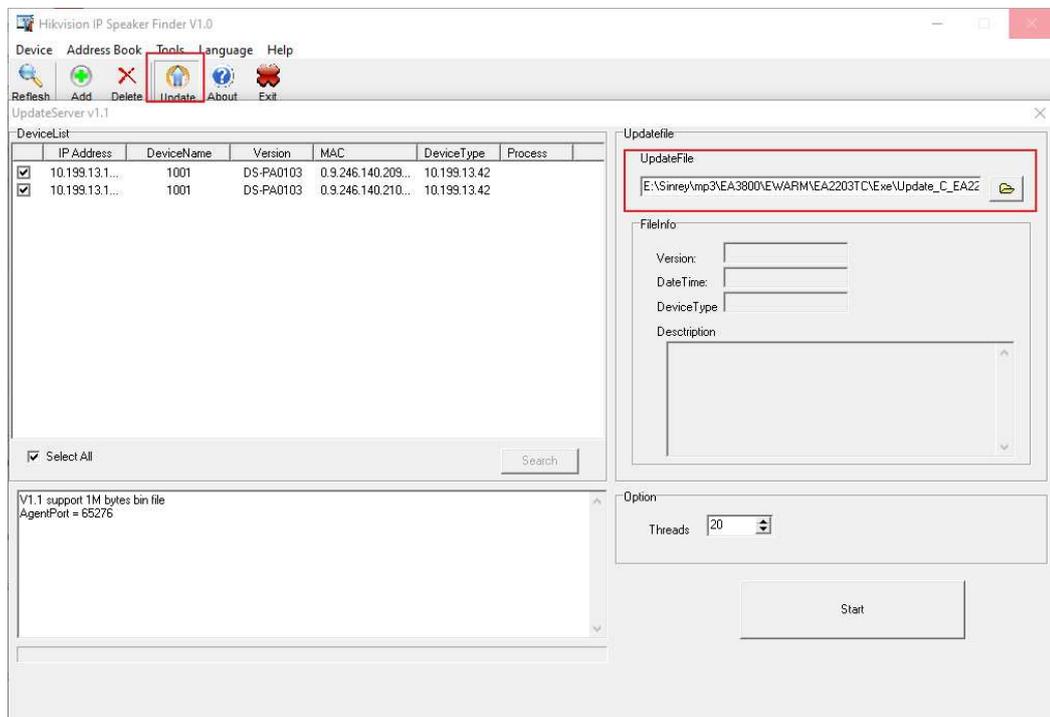
3. Log in the webpage of the device by entering device IP address, fill in the platform to which the device needs to be registered, exit the webpage, and click the Logout

button to take effect.



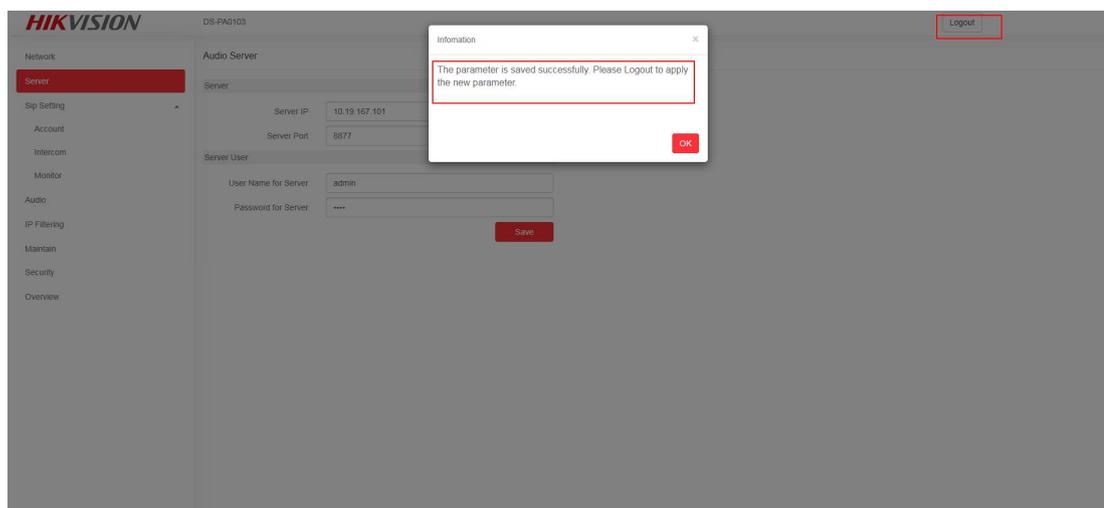
3.1.2 Update IP Speaker Firmware

1. Click [Update] on the main interface and click [Start] after selecting the upgrade file path.



3.1.3 Add IP Speaker to HikCentral

Log in to the webpage of the device, fill in the platform to which the device needs to be registered, exit the webpage, and click the Logout button to take effect.

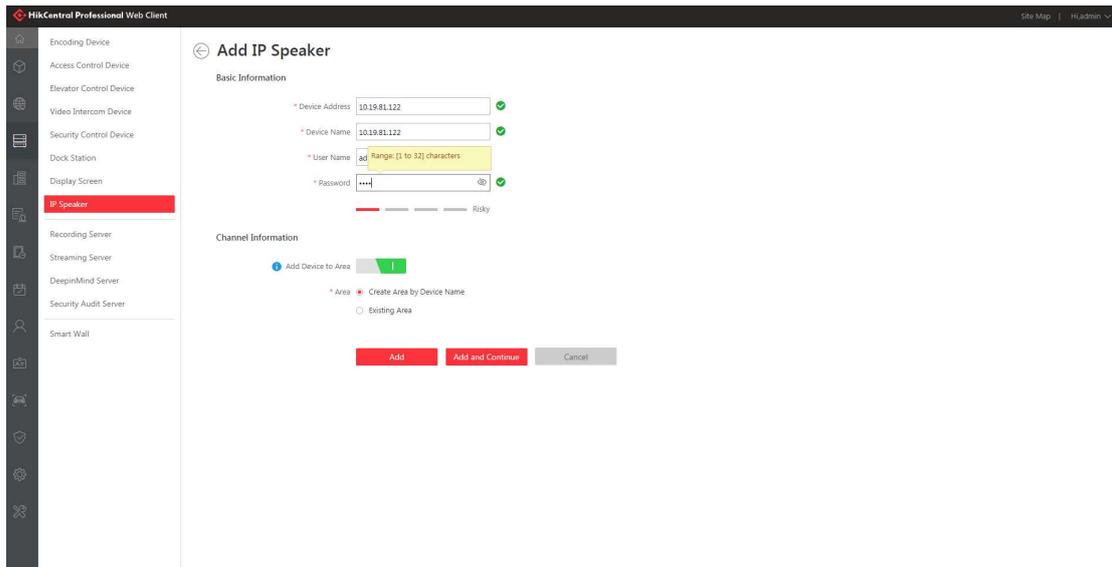


3.2 HikCentral Web Client Configuration

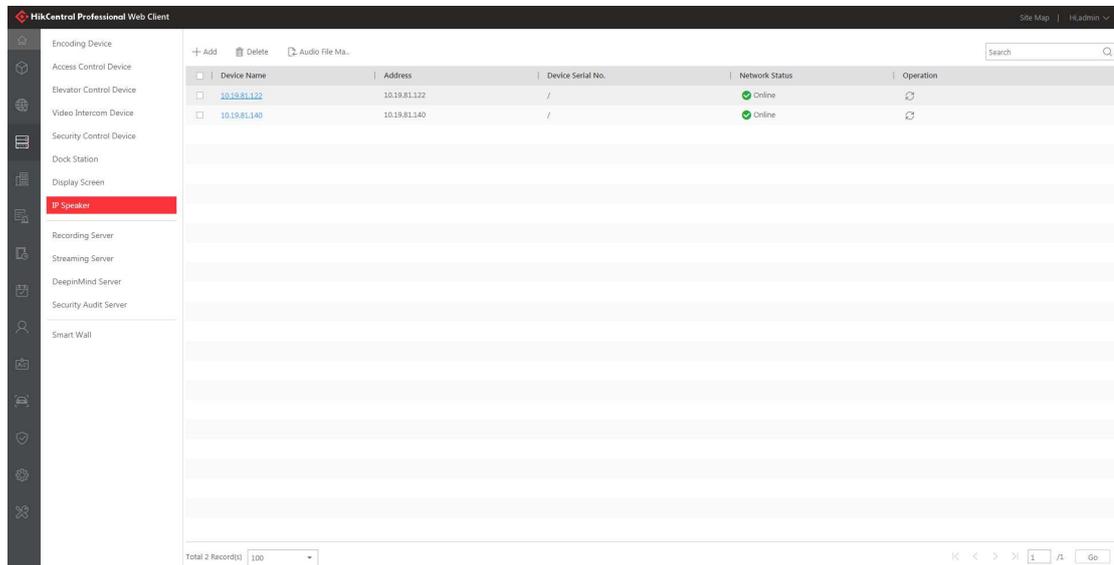
3.2.1 IP Speaker Management

Add IP Speaker

1. Log in to the Web Client, enter the Physical view → IP Speaker page, click the add button, enter the Device's IP address, Device Name, User Name and Password, and add the Device to the Area. You can select Create Area by Device Name or Existing Area, then click add to add the Device to the platform, and refresh the Device several times, and the Device will be in the online state.



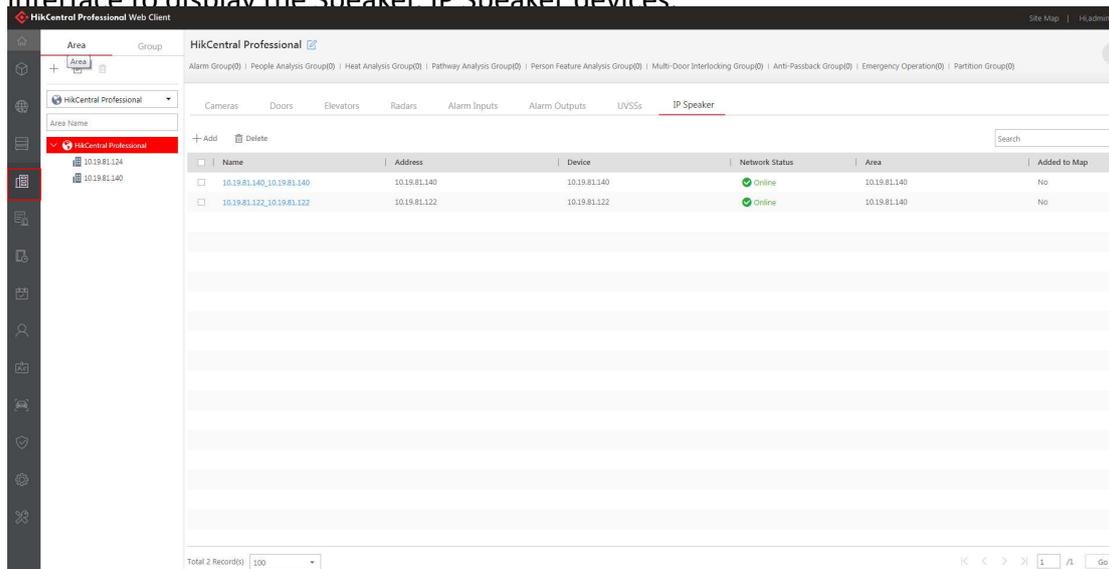
2. Check IP Speaker status on IP Speaker menu.



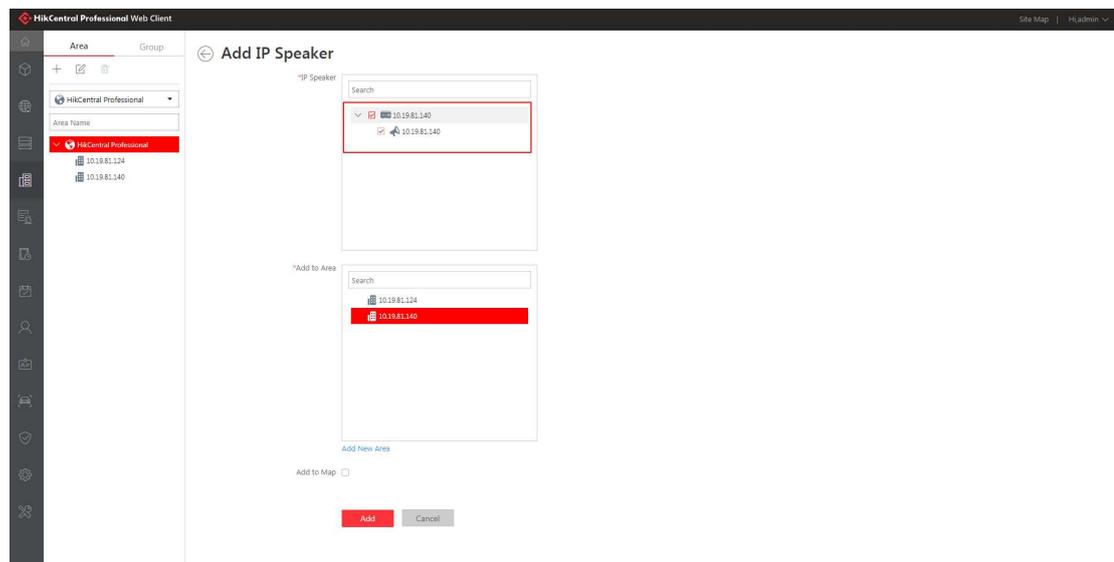
Note: when checking the IP Speaker status, it may take time to refresh. The status will become 'online' after refreshing page a few time if it is configured correctly.

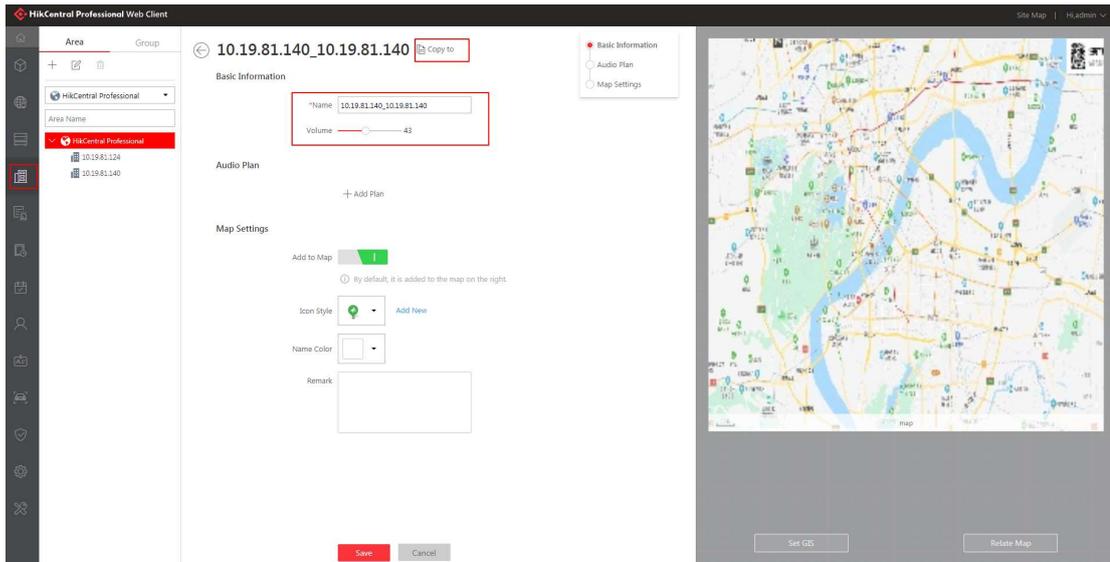
Managing IP Speaker

1. Enter the [Logical] module and select the area to enter the [IP Speaker] list interface to display the Speaker IP Speaker devices

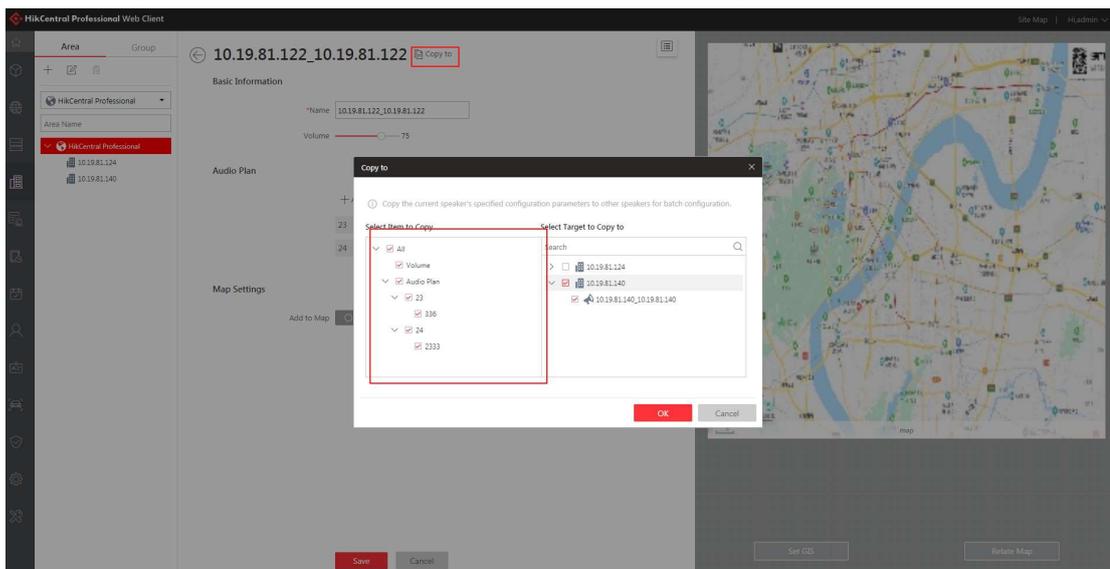


2. Select the Speaker logic resource to add, edit and delete.





In the Speaker configuration page, edit the screen to change the Speaker name, volume, audio playback plan, and map Settings. Click the "Copy to" button to batch Copy the volume and audio playback plan of the Speaker.



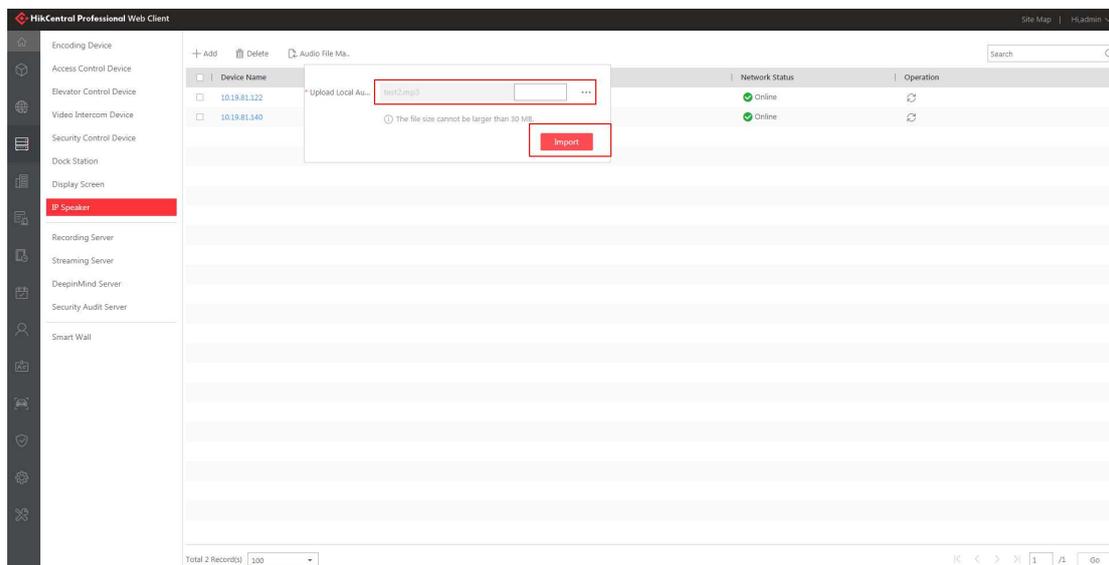
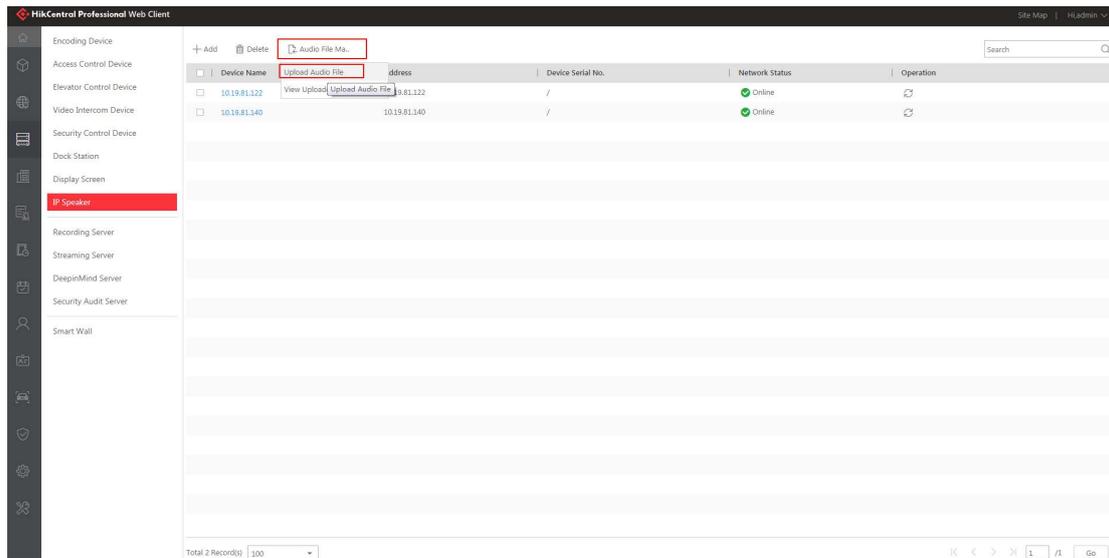
Note

- a) The IP Speaker volume needs to be configured to be 70 or above to hear
- b) When the IP Speaker device is offline, the volume will be set to the IP Speaker device. When the device is online or starts broadcasting voice or playing audio files, the volume will be set to the IP Speaker device.

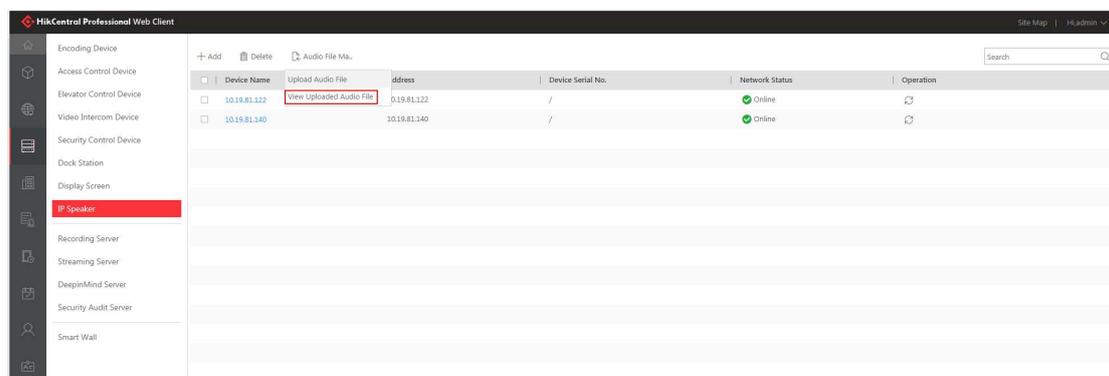
3.2.2 Upload Audio File

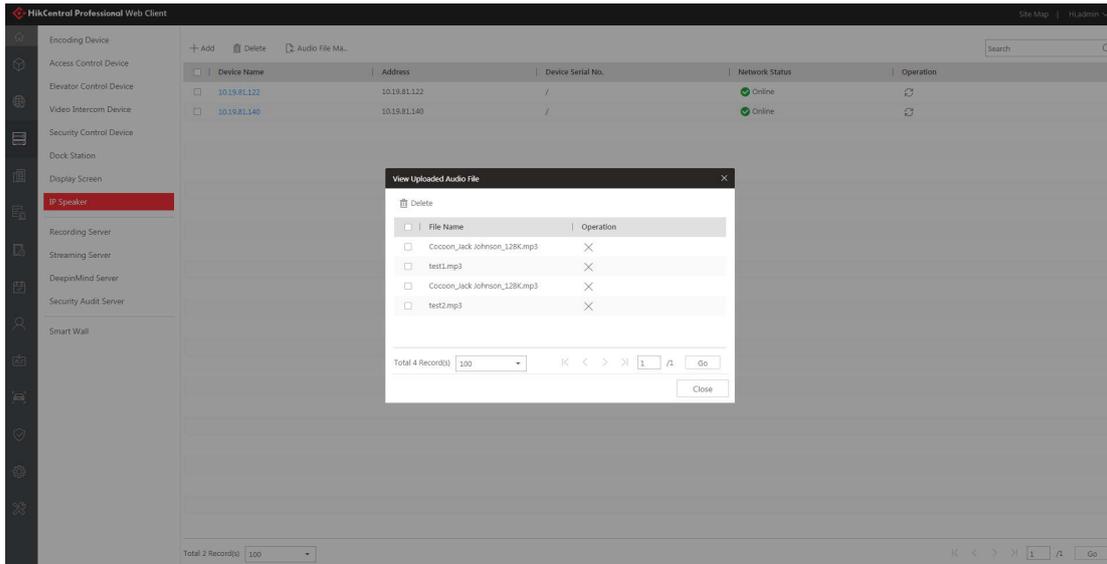
1. Log in to the Web Client, enter the Audio File Management module in the Physical

view → IP Speaker page, and click the Upload Audio File button. Select a file, then click the Import button to upload the file to the service.

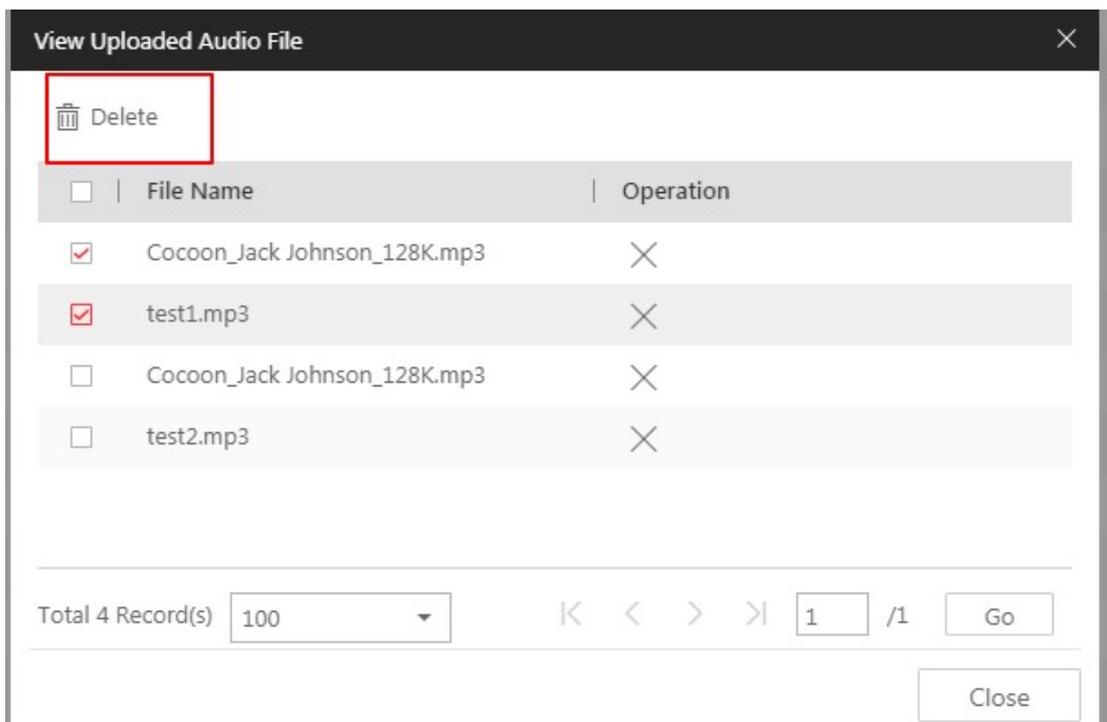


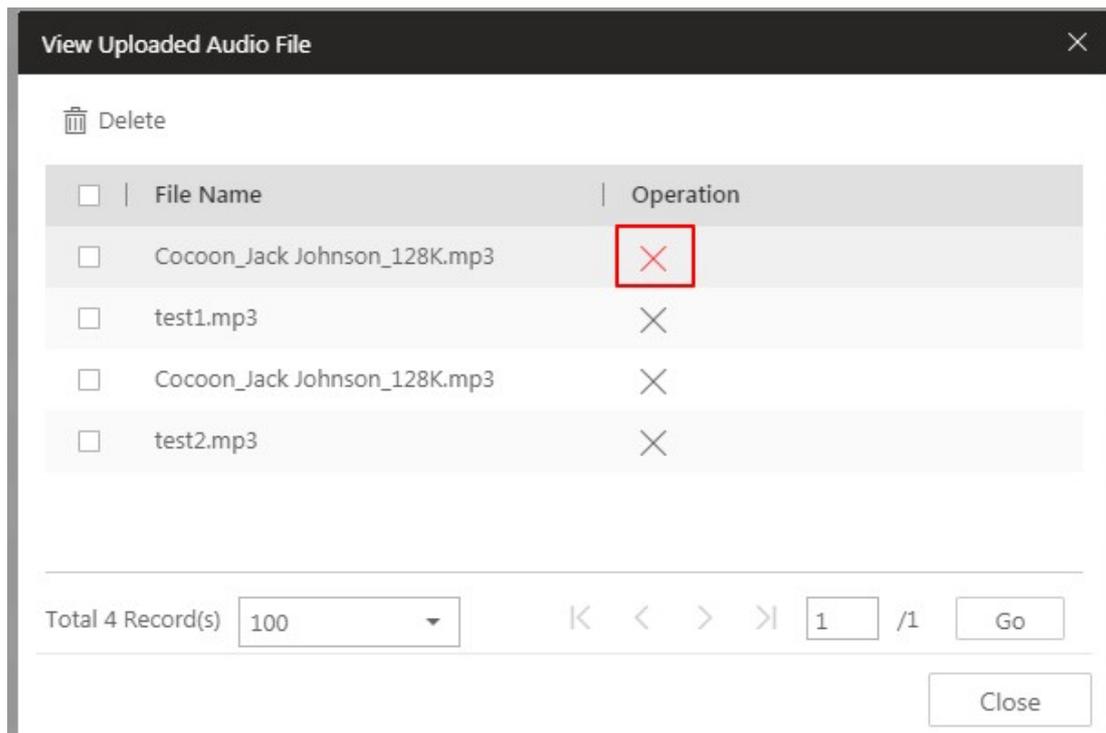
2. View the uploaded audio file. At the end, click the View Event Audio File button to see the Audio files uploaded onto the platform.





3. To delete the audio file, check the audio file to be deleted, and then click the Delete button to delete one or more audio files. You can also delete an audio file by clicking the button at the end of each line.



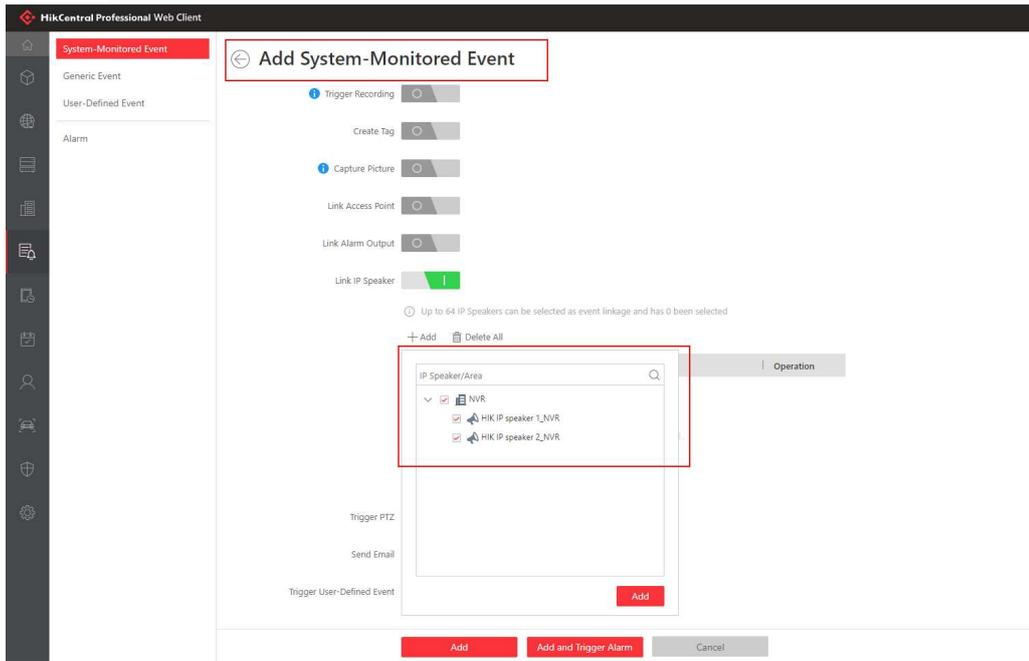


Note:

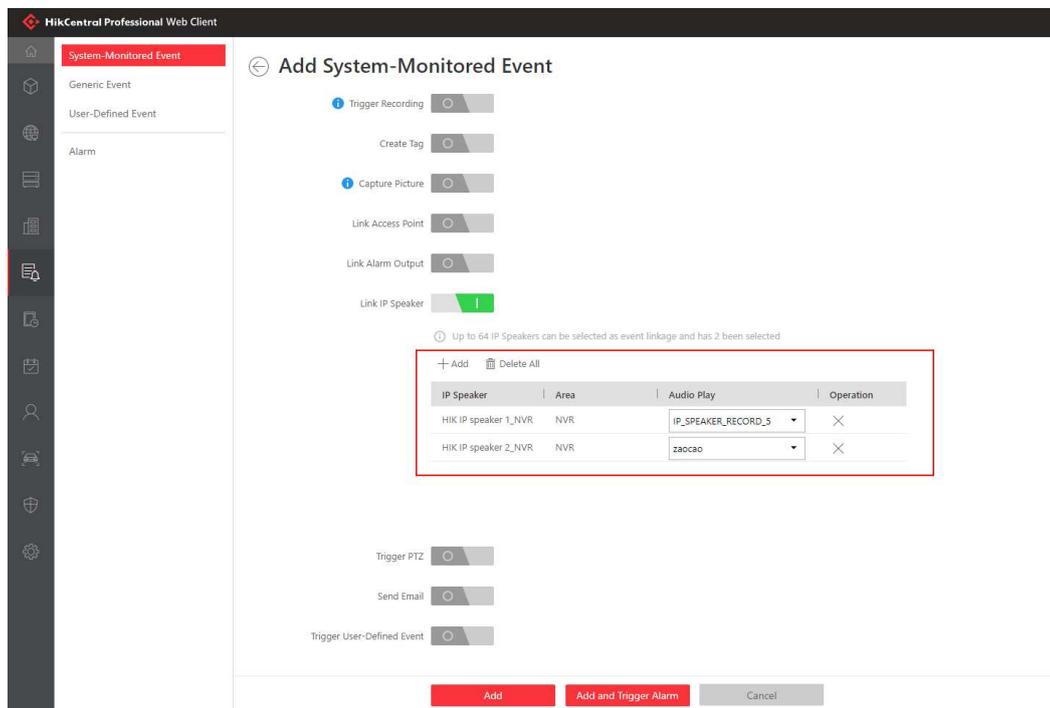
Audio files with the same name cannot be uploaded to the service.

3.2.3 Event Linkage

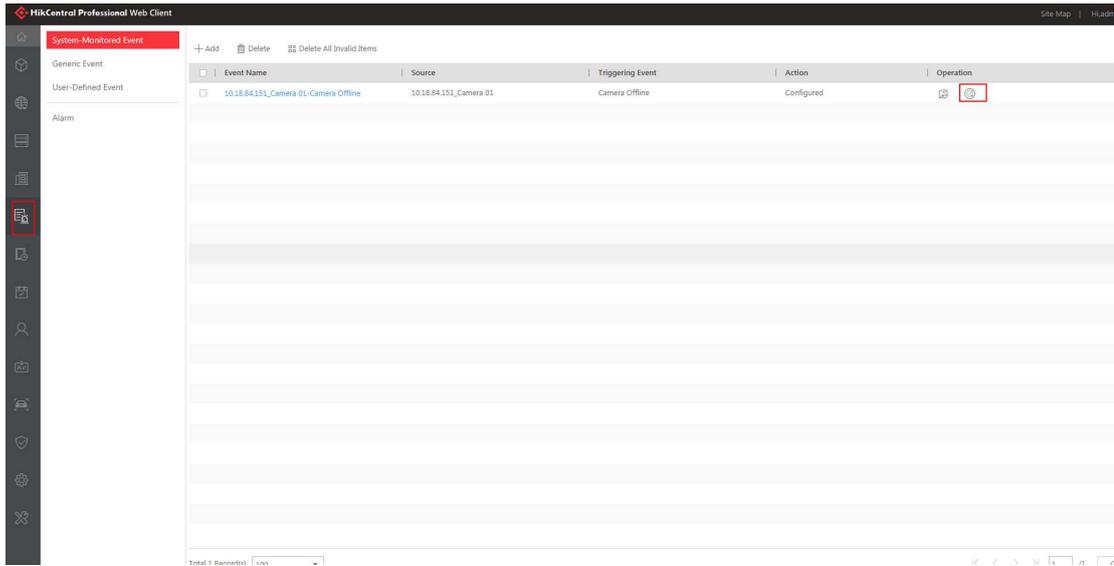
1. Go to HikCentral Web Client → **【Event &Alarm】** → **【System-Monitored Event】**
2. Click the "Add" button to Add a new event. Click the Actions linkage button and open the Link IP Speaker button to expand the Speaker linkage configuration interface.



3. Speaker linkage can be added, edited, and/or deleted. The audio file played by the Speaker is saved on the NVR, and the HikCentral service only gets the corresponding file ID and file name.



4. After adding the event linkage, return to the event list interface, wait for the event to be triggered or click the "simulate trigger" button, and the Speaker device will play the configured audio.

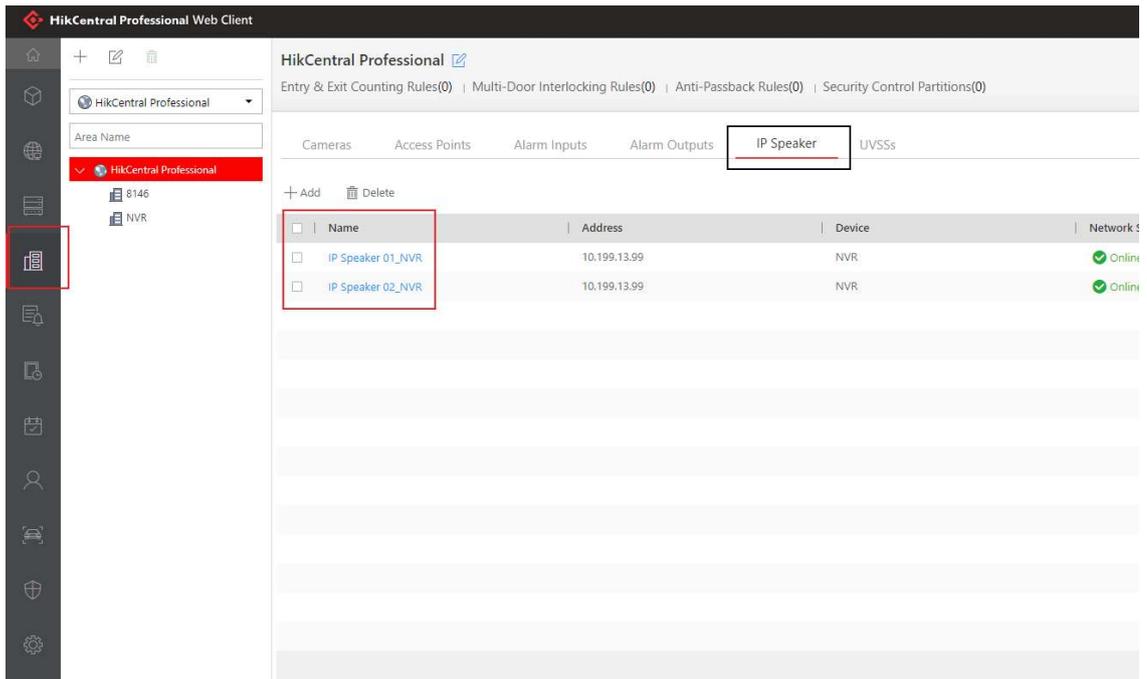


Note

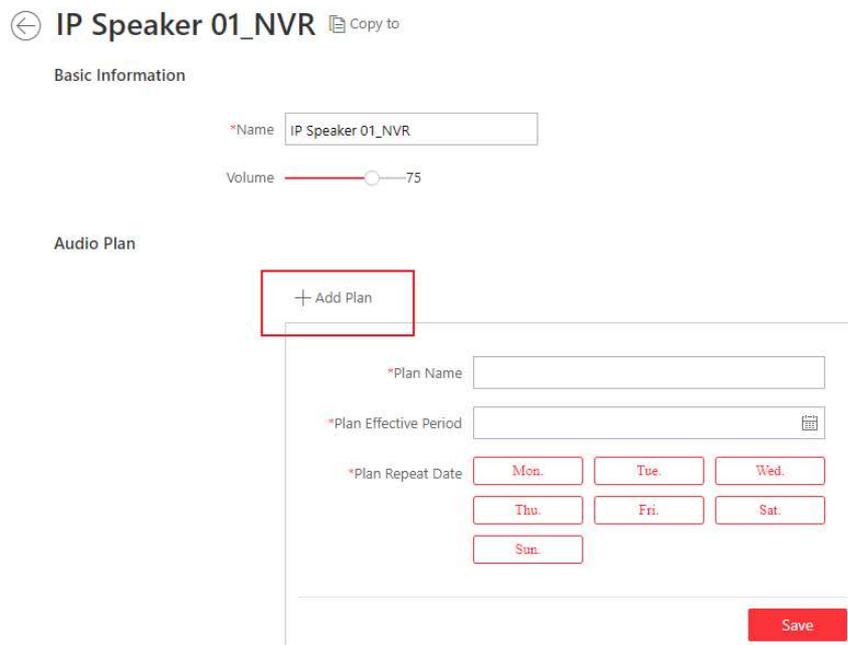
1. After the Speaker starts to play the audio, the next audio can only be played after the completion of the current audio, which cannot be paused or stopped in the middle (however, [?] the audio currently playing can be eliminated by intercom).
2. The next audio can be played about 10 seconds after the completion of normal audio playback.

3.2.4 Schedule Audio Plan Settings

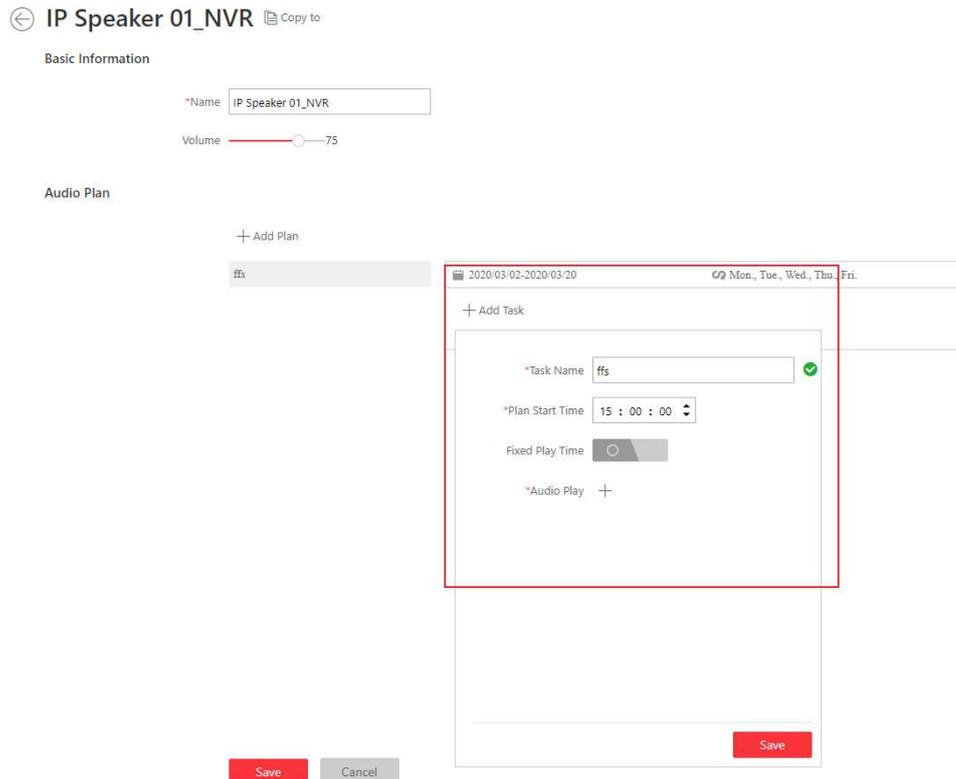
1. Go to Logical View IP Speaker module, and click the Speaker name to go to the configuration page.



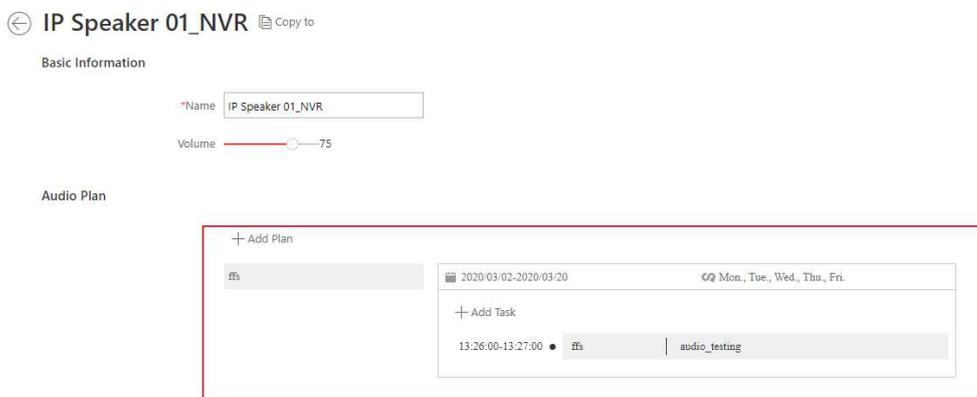
2. Click on [Add Plan] and enter the name of the Plan, Plan Effective Period, and Plan repeat period.



3. After creating the plan, click [Add Task] to Add the playback Task, enter the Task name, plan start time, fix play time, and select the audio file name.



4. Click save, and the IP Speaker will start playing the selected audio at the scheduled time.,



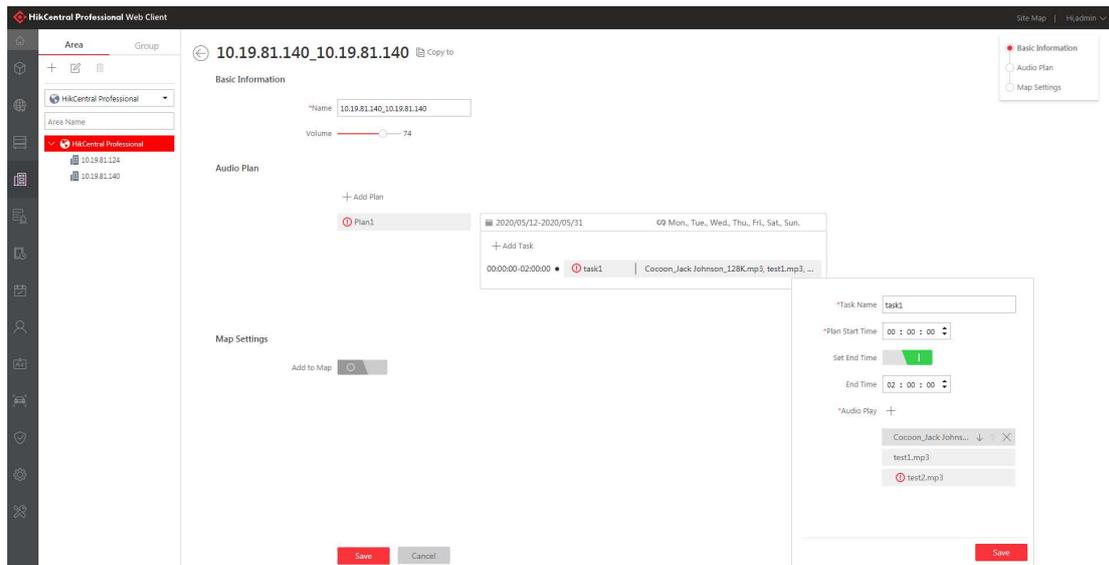
Note:

1) A Speaker can be configured with a maximum of 32 audio playback plans, and each Speaker can add a maximum of 8 tasks

2) The start time of all audio playback tasks cannot be the same under a Speaker's different playback plan.

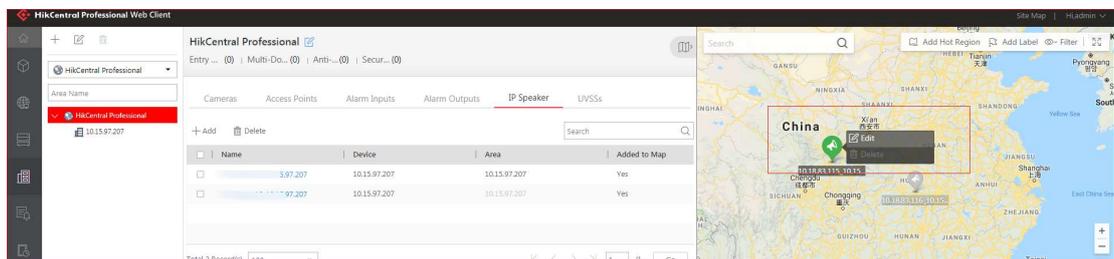
3) All audio playback tasks cannot start at the same time for different playback plans for a Speaker.

4) If the audio player file has been deleted, this task and the corresponding plan will prompt an "exception".

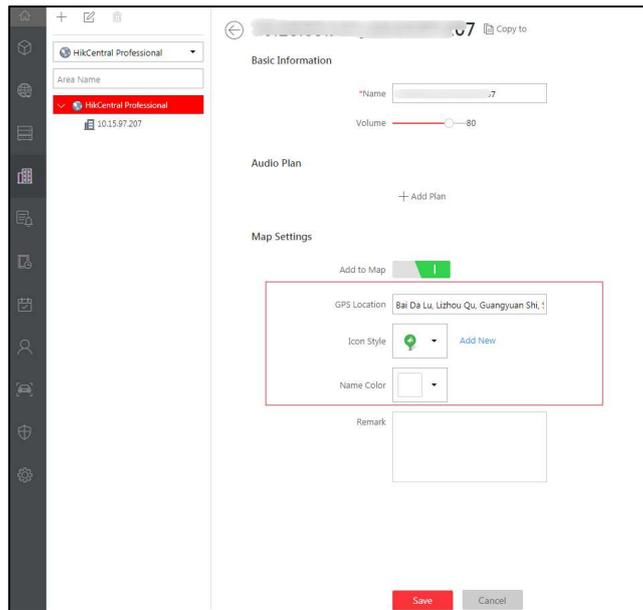


3.2.5 GIS/E-Map Configuration

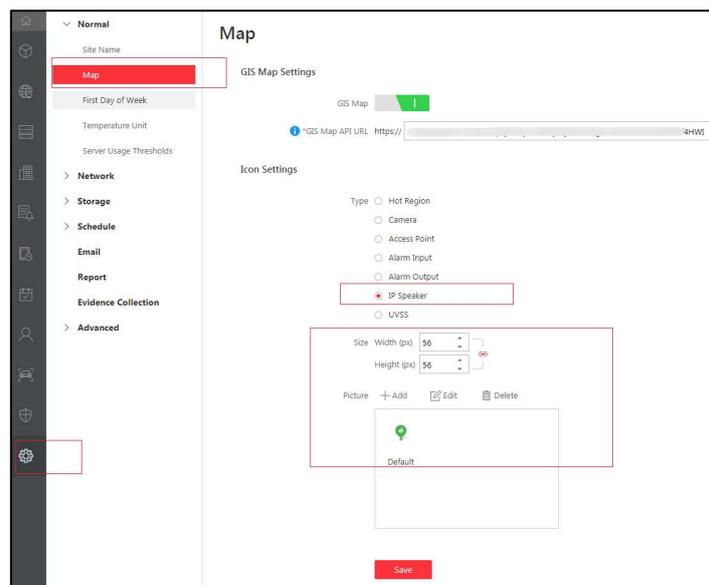
1. Log in to the Web Client, enter the [Logical] module, and select a region to enter the List of IP Speakers.
2. Drag the Speaker logic resource to the GIS/ e-map to add Speaker hotspots.



3. Select Speaker hot spot on GIS/ e-map to edit (icon type, name color) and delete.



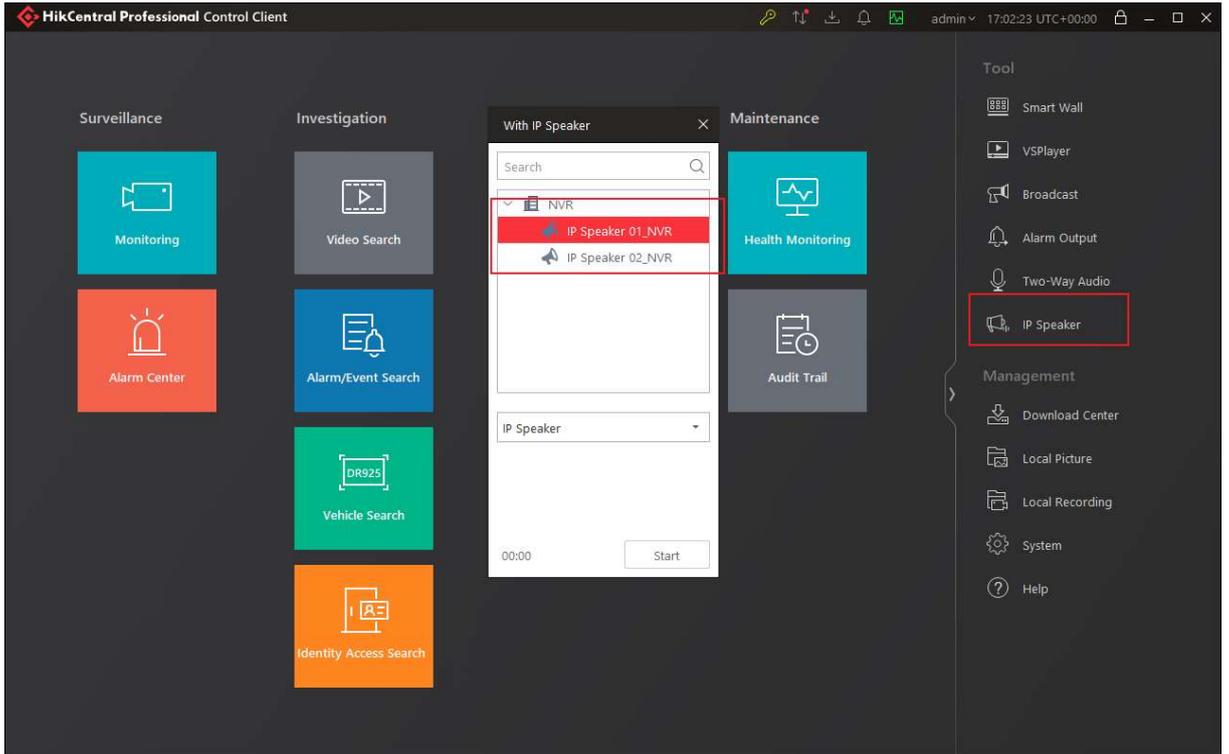
4. Go to the map configuration page of [System], and modify the size and icon of IP Speaker.



3.3 HikCentral Control Client Operation

3.3.1 Basic Operation

1. Log in to the Control Client, enter the IP speaker module, and select the speaker to operate on.



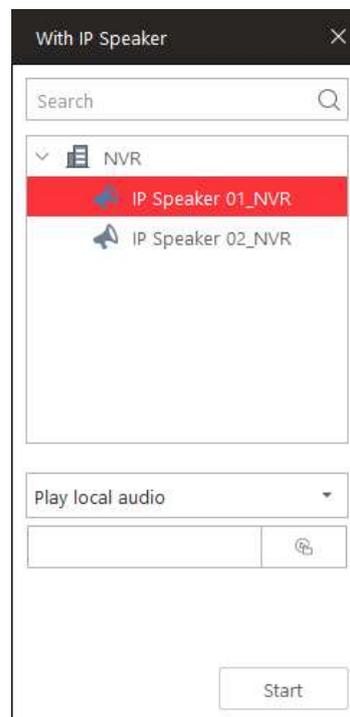
2. Select the speaker resource, select [IP speaker], and click start to start the real-time audio broadcasting[?].



3. Select the speaker resource, select [Play device audio], select the file and click Play to Play the NVR remote audio file.



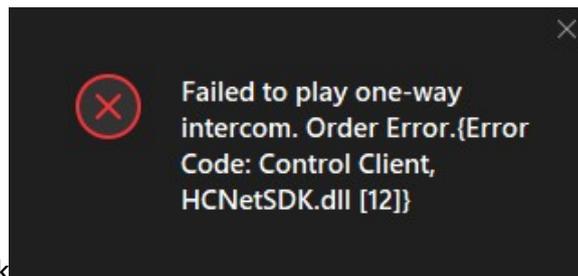
4. Select the speaker resource and select [Play local audio]. You can select the local audio file, which supports MP3 format and is less than 10M. Click Start to Play.



Note

- 1) No audio can be played in a shout

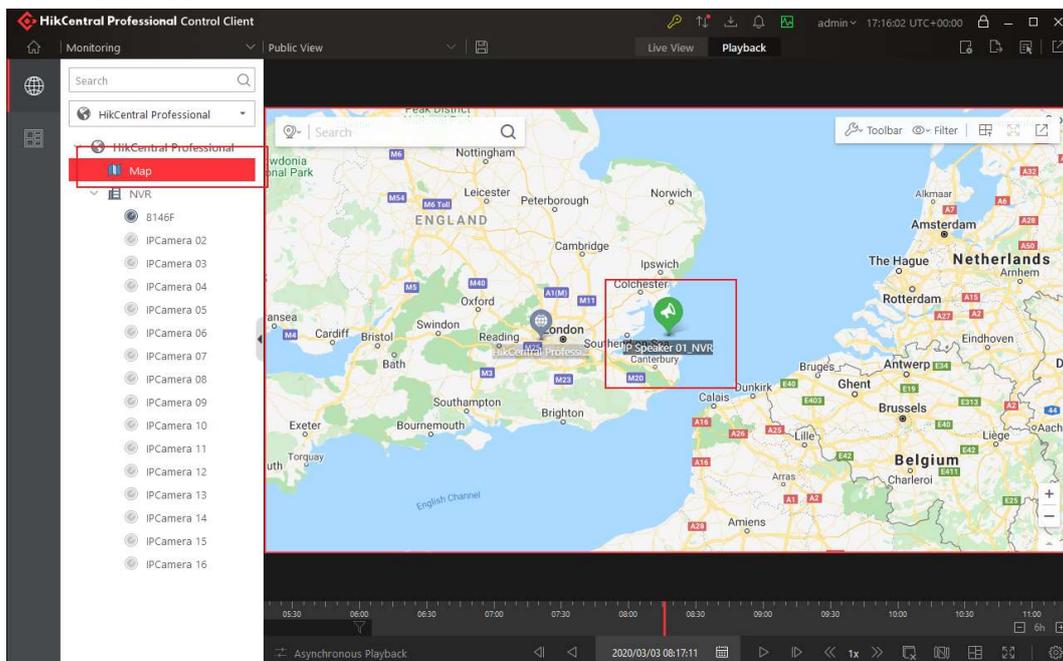
- 2) Size of local audio files supports MP3 files below 10M, and WAV format devices are not currently supported
- 3) If the IP Speaker is offline, the client will automatically update the status within three minutes; An offline speaker cannot be disabled
- 4) Multiple clients cannot broadcast [?] at the same time
- 5) The PC is not connected to the radio equipment, so there will be an error



message in one-way audio-talk

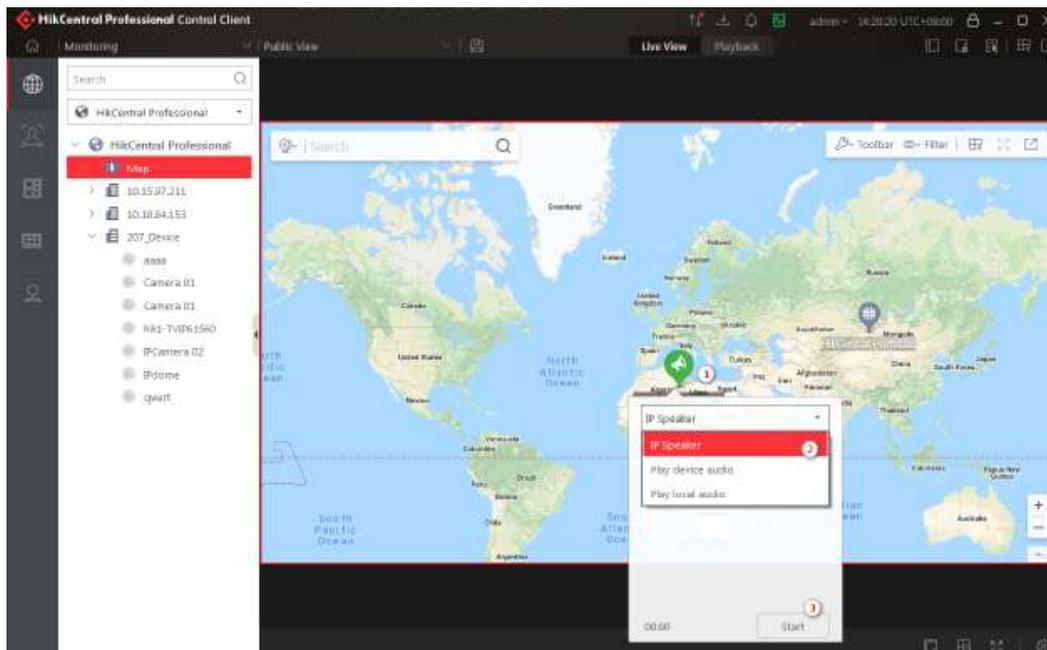
3.3.2 GIS/E-Map operation

1. After configuring the resources of the IP Speaker on the e-map/GIS-map on the web side, log in the client side, enter the Map module, and click the IP Speaker resource.



2. Click [IP Speaker] to broadcast [?], click [Play device audio] to Play the audio file uploaded by the remote NVR, and click [Play local audio] to select the local

audio file to Play. The operation is the same as the operation of the toolbar IP Speaker.

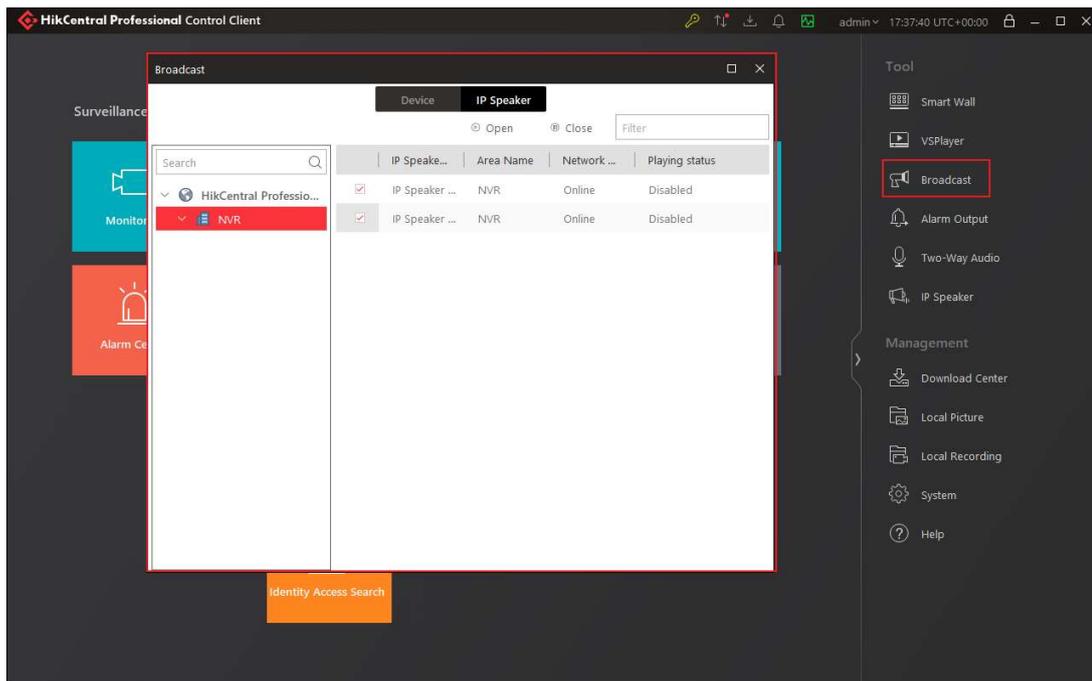


Note:

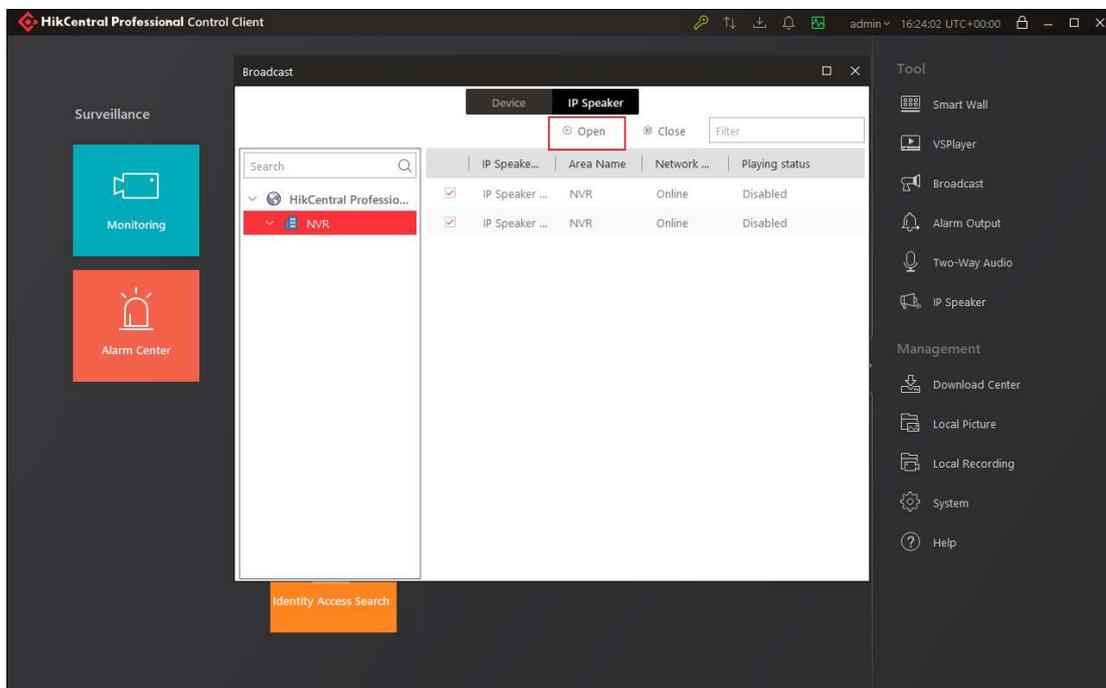
- 1) If there are multiple IP speakers on GIS/ e-map, switching IP speakers will pause previous IP speakers
- 2) If the customer is doing broadcast, map broadcast will be failed.
- 3) Size of local audio files supports MP3 files in format less than 10MB, and wav format is not currently supported.

3.3.3 Broadcast

1. Log in to the client, select [Broadcast], enter the Broadcast interface, select [IP Speaker], select the region, select IP Speaker resources, click on the following ([Broadcast], Broadcast propaganda.



2. Log in to client, select the "Broadcast", in the radio interface, select "IP Speaker", select area, choose IP Speaker resources, click on the image below the "Open", select "Broadcast" to Broadcast propaganda, choose the Play device audio  broadcasting digital NVR uploaded audio files, select  select local broadcasting audio file. The operation is the same as the operation of the toolbar IP Speaker.



Note:

(1) HikCentral will stop an audio file when you choose another IP Speaker on GIS/E-Map.

- (2) Two-way audio on GIS/Map will fail when the client is broadcasting.
- (3) Local files only support MP3 format and no more than 10MB.
- (4) You can't operate an IP Speaker when the channel status is offline. HikCentral will detect it in 3 minutes.
- (5) HikCentral service will synchronize audio files on the NVR. You can refresh the NVR status if you don't file the audio file.

END