

Configure an AND IP Device as a SIP Device

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OVERVIEW

Most AND IP devices can act as a phone, making and receiving calls. You can use the microphone and speaker of the device to perform two-way, full-duplex intercom calls with other AND devices, as well as configure them as SIP devices. Our devices integrate with VoIP and SIP-based phone platforms.

This document shows how to configure an AND device as a SIP device via the device configuration file (typical for regular to larger sized installations), or via the web page (only for smaller installations).

OPTION 1: AND DEVICE SETUP VIA GLOBAL CONFIGURATION FILE

We recommend this method to maintain all the per-device SIP information in a single file.

1. Edit the global configuration file (e.g., *IPSpeaker.cfg* or *InformaCastSpeaker.cfg*) to set the IP address of the SIP server and point to the aggregate speaker configuration file that will contain the specific SIP information for each AND device on the network:

SIP_server_addr	SIP server IP address					
AggregateSpeakerConfigFile	File containing device-specific information					

Example excerpt from IPSpeaker.cfg:

```
<SIPConfig
SIP_server_addr="10.10.7.168"
/>
<AggregateSpeakerConfigFile file="AllSpeakers.cfg" />
```

2. Edit the aggregate speaker configuration file (e.g., *AllSpeakers.cfg*) to set the specific SIP information for each AND device on the network:

id	Match an available extension number on the SIP server (e.g., 7003)
password	Match the <i>password</i> configured for this extension on the SIP server
digest_username	Match the <i>digest user</i> configured for this extension on the SIP server
push_to_talk_ip1	(optional) If using the push-button to generate a callback to another
	SIP device, set this parameter to the extension of the line to ring when
	the button is pressed. Alternately, you can specify the MAC address or
	IP address of another AND device instead of an extension.

Example excerpt from AllSpeakers.cfg:

```
<AllSpeakers>
<Speaker mac="2046f9010203">
<SIPConfig
id="7003"
```



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```
password="password123"
    digest_username="Dan"
    push_to_talk_ip1="7000"
    />
    </Speaker>
</AllSpeakers>
```

3. Reboot the AND device to begin using the new settings.

OPTION 2: AND DEVICE SETUP VIA MAC-SPECIFIC CONFIGURATION FILE

If an administrator prefers to keep individual configuration files for each device, use this method, which can help when generating configuration files programmatically per device.

1. Edit the AND device's specific configuration file, *IPSpeaker2046f9010203.cfg*, where 2046f9010203 is the MAC address of the device to configure.

id	Match an available extension number on the SIP server (e.g., 7003)
SIP_server_addr	SIP server IP address
password	Match the <i>password</i> configured for this extension on the SIP server
digest_username	Match the <i>digest user</i> configured for this extension on the SIP server
push_to_talk_ip1	(optional) If using the push-button to generate a callback to another
	SIP device, set this parameter to the extension of the line to ring when
	the button is pressed. Alternately, you can specify the MAC address or
	IP address of another AND device instead of an extension.

2. In the *SIPConfig* tag, set the following parameters:

3. Reboot the AND device to begin using the new settings.

Example excerpt from IPSpeaker2046f9010203.cfg:

```
<IPSpeakerConfiguration>
...
<SIPConfig
  id="7003"
  SIP_server_addr="10.10.7.168"
  password="password123"
  digest_username="Dan"
  push_to_talk_ip1="7000"
/>
...
</IPSpeakerConfiguration>
```



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OPTION 3: AND DEVICE SETUP VIA WEB PAGE

- 1. On the AND device's web page, select **Device Settings** \rightarrow SIP.
- 2. Enter the following information:

Extension	Match an available <i>extension number</i> on the SIP server (e.g., 7003)
SIP Server	Match the IP address of the SIP server
SIP Password	Match the <i>password</i> configured for this extension on the SIP server
SIP Digest Username	Match the digest user configured for this extension on the SIP server

3. If using the optional push-button to generate a callback to another SIP device, set the Push-

				Home	Device Status		SIP Status	Devic	Device Settings		
General Audio	Display	Network	SIP	SIP2	Servers	Firmwar	e Peripherals	Streams	Priorities	Scheduler	XML
	Changed settings have been saved and applied. Save SIP Changes										
	SIP Ger	SIP General Settings help								help	
	Paramet	er			Stored v	alue N	Iew Value				
	SIP Mod	le			Phone	F	Phone 🗸				
	Promise	uous Mode			Yes	Y	Yes \checkmark				
	Extensio	on			7003	7	003				
	SIP Serv	/er			10.10.7.	168 1	0.10.7.168				
	SIP Don	nain (e.g. di	gidescor	p.com)							
	SIP Pass	sword			passwore	d123 p	bassword123				
	SIP Dig	est Usernam	ne		Dan	C	Dan				

To-Talk 1 to the extension of the line to ring when the button is pressed. Alternately, you can specify the MAC address or IP address of another AND device instead of an extension.

SIP GPIO Input Action Settings						
Parameter	Stored value	New Value				
Push-to-Talk 1 (GPIO 0 Outgoing)	7000	7000				
Push-to-Talk 1 Alternate (Hold)						
Push-to-Talk 1 Alternate Hold Time (ms)	0	0				
Push-to-Talk 1 Trigger Only	No	No 🗸				

- 4. Click the Save SIP Changes button.
- 5. Reboot the device to begin using the new settings.

OPERATION

You can confirm operation and identify any issues via the device web server SIP Status page.



