

# Configurations for AudioCodes SBC - SIPREC Recording

Effective 2021.Winter.1, Imagicle Call Recording can record any audio call passing through an AudioCodes Mediant SBC. This is useful in those scenarios where a cloud-based Calling platform is in place and customer or Service Provider has got an on-prem SBC to provide local access to PSTN.

## Requirements

AudioCodes firmware should be 7.20A.158.056 or higher.

Silent Suppression is not supported.

## AudioCodes SBC Configurations

First of all, please make sure that AudioCodes has got enough SIPREC sessions license to cover the number of required concurrent recordings.

The screenshot shows the AudioCodes SBC web interface. The top navigation bar includes 'SETUP 1', 'MONITOR', and 'TROUBLESHOOT'. The left sidebar has 'IP NETWORK', 'SIGNALING & MEDIA', and 'ADMINISTRATION 2'. Under 'ADMINISTRATION', the 'MAINTENANCE' section is expanded, showing 'License Key' as the selected option. The main content area shows the 'License Key' configuration page, which includes a 'Serial Number' field and a 'VOIP SIGNALING PROTOCOLS' section with 'SIP' selected. The 'VOIP FEATURES' section shows 'SIPRec Sessions' with a value of 100.

Please make sure that "IP Groups" and "IP-to-IP Routing" have been properly configured to route calls between your IP telephony environment and PSTN provider.

Configure audio codecs for Imagicle Call Recording on the gateway. Navigate to **Setup** > **Signaling & Media** > **Coders & Profiles** > **Coder Groups**. Select a new and unused Coder Group Name and add two Codecs in the following order:

The screenshot shows the AudioCodes SBC web interface. The top navigation bar includes 'SETUP 1', 'MONITOR', and 'TROUBLESHOOT'. The left sidebar has 'IP NETWORK', 'SIGNALING & MEDIA 2', and 'ADMINISTRATION'. Under 'SIGNALING & MEDIA', the 'CODERS & PROFILES' section is expanded, showing 'Coder Groups' as the selected option. The main content area shows the 'Coder Groups' configuration page. A table lists the configured codecs:

Coder Name	Packratization Time	Rate	Payload Type
G.711A-law	20	64	8
G.711U-law	20	64	0

Click Apply and then navigate to **Allowed Audio Coders Groups** in the same section. Click New and enter an unused index and Name for Imagicle Recorder. Click Apply.

GENERAL

Index

2

Name

• Call Recorder

Select the newly created item and, in the lower section, click on **Allowed Audio Coders >>>** link:

## #2[Call Recorder]

GENERAL

Name

• Call Recorder

Allowed Audio Coders 2 items >>

Configure the same codecs as done in above step:

← Allowed Audio Coders Groups [#2] > Allowed Audio Coders (3)

+ New Edit		Page 1 of 1 >>	
INDEX		CODER	
0		G.711 A-law	
1		G.711 U-law	

Navigate to the IP Profiles item in same section.  
Click on the button New and fill in or change the following fields.

- Index - Any unused number
- Name - i.e. Imagicle Recorder
- SBC Media Security Mode - **RTP**
- Extension Coders Group - Select Coder Group from previous steps
- Allowed Audio Coders - Select Allowed Audio Coders Group from previous step
- RTCP Mode - Select **Generate Always**
- Broken Connection Mode - **Ignore**
- Keep other settings as default

Click the Apply button. Then click Save button to save the changes to the startup configuration:



Now please create an IP Group (SIP Trunk). Navigate to **Setup** → **Signaling & Media** → **Core Entities** → **Proxy Sets**. Click New and enter the following parameters:

- Index - Any unused number
- Name - i.e. Imagicle Recorder or its IP address
- SBC IPv4 SIP Interface - Select the SIP interface which is used for inbound/outbound calls
- Proxy Keep-Alive - Select **Using OPTIONS**

The screenshot shows the Audiocodes SBC configuration interface. The left sidebar contains a navigation menu with options like Applications Enabling, SRDs, SIP Interfaces, Media Realms, Proxy Sets, IP Groups, MEDIA, CODERS & PROFILES, SBC, SIP DEFINITIONS, MESSAGE MANIPULATION, INTRUSION DETECTION, and SIP RECORDING. The main area displays the 'Proxy Sets (6)' configuration page. The 'GENERAL' tab is active, showing fields for Index (4), Name (10.17.7.14), SBC IPv4 SIP Interface (SIPInterface\_0), and TLS Context Name. The 'KEEP ALIVE' section shows Proxy Keep-Alive set to 'Using OPTIONS', Proxy Keep-Alive Time (sec) set to 60, and Keep-Alive Failure Responses. The 'REDUNDANCY' section shows Redundancy Mode, Proxy Hot Swap, Proxy Load Balancing Method, and Min. Active Servers for Load Balancing. The 'ADVANCED' section shows Classification Input and DNS Resolve Method. At the bottom, there are 'Cancel' and 'APPLY' buttons.

Click the Apply button. Then, at the bottom of the window, click on **Proxy Address N items >>** link:

Success Detection Retries	1
Success Detection Interval	10
Failure Detection Retransmissions	-1

**Proxy Address 1 items >>**

Add a new item. Enter Imagicle Call Recording UC Suite IP address and UDP port 5070. Click Apply:

## Proxy Sets [#4] > Proxy Address (1)

+ New

Edit

<<

<

Page 1 of 1

>

>>

Show 10 records per page

INDEX	PROXY ADDRESS	TRANSPORT TYPE
0	10.17.7.16:5070	UDP

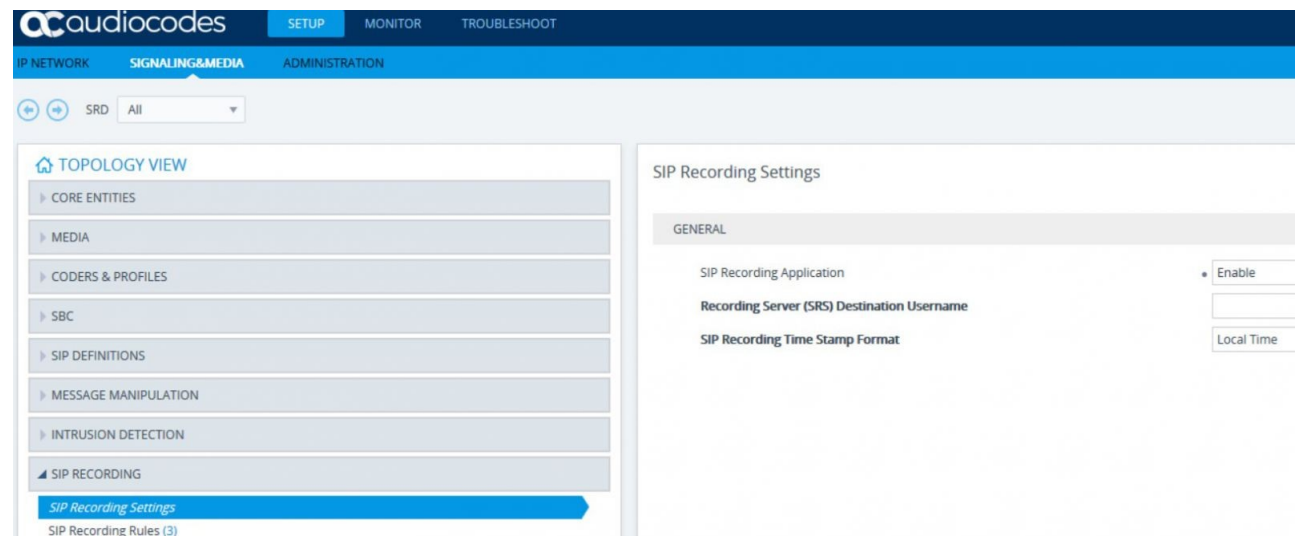
Now please navigate to the IP Groups item in the same section, to specify the SIP Trunk. Click New and fill in the following fields:

- Index - Any unused number
- Name - i.e. Imagicle Recorder
- Topology Location - **Down**
- Type - **Server**
- Proxy Set - Select the proxy set from previous step
- IP Profile - Select the IP Profile from previous step
- Media Realm - Select your Media Realm which is used for the incoming and outgoing calls
- SIP Group Name - Type the IP address of Imagicle UC Suite server
- If required, you can optionally apply Inbound/Outbound Message Manipulation Sets

Click Apply and then click Save button to save the changes to the startup configuration:



Finally, it's time to configure SIPREC and rules. Navigate to **Setup** â **Signaling & Media** â **SIP Recording** â **SIP Recording Settings**. Change the SIP Recording Application state to **Enable**. Click on Apply button:



Once the settings have been applied, configuration must be saved and AudioCodes SBC whole box must be restarted. In the case of a cluster, all units must be restarted.

After the restart, please configure SIP Recording Rules. Navigate to **Setup** â **Signaling & Media** â **SIP Recording Rules**. Click **New** button and configure at least one of Recorded or Peer Group ID and Recording Server (SRS) IP Group fields, otherwise, configuration is not accepted.

The image below shows an example of the configuration wherein all data flowing from Cisco CUCM, and routed anywhere, is recorded by Imagicle Call Recording:

GENERAL		RECORDING SERVER	
Index	0	Recording Server (SRS) IP Group	* #41 [Call Recorder 10.17.7.16] <span>2</span>
Recorded IP Group	* #2 [Cisco CUCM 192.168.111.111] <span>1</span>	Redundant Recording Server (SRS) IP Group	--
Recorded Source Prefix	*		
Recorded Destination Prefix	*		
Condition	-- View		
Peer IP Group	Any View		
Caller	Both		

Cancel APPLY 3

You can also be more detailed and specify additional routes. i.e. You may combine Source or Destination Prefixes or Recorded and Peer IP Groups for a more specific recorded calls routing.

Click Apply and perform a test call to verify that call is successfully recorded.