

## Sonus & Audiocodes SBC Configuration Notes

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## Introduction

Algo IP products support the open SIP telephony standard, which is not directly supported by the Microsoft Skype for Business / Teams platform.

In order to interface a SIP endpoint with a Skype for Business environment, a third-party SIP Gateway device can be used. This gateway accepts the SIP registration from the endpoint, and then also communicates with the Microsoft server, thus acting as an interface between the two.

The SIP endpoint just sees the SIP Gateway, the actual phone system behind is invisible. On the Algo device, configure the "SIP Domain (Proxy Server)" with the address of the SIP Gateway, and provide the appropriate credentials for this account (Extension, Authentication ID & Password).

This document provides an overview of registering an Algo SIP Endpoint with both Sonus & AudioCodes gateways.

## Sonus SBC

Ensure that the Sonus SBC used is a SIP Gateway: specifically, that it allows a third-party SIP endpoint to register with it via SIP.

Sonus SIP Registrar – get a SIP license from Sonus. A license installed allows an endpoint to become a registered SIP client.

- SIP Domain (Proxy Server) = SBC name/address
- Extension = extension number created on Sonus
- Authentication ID = not mandatory, dependant on SBC configuration
- Authentication Password = not mandatory, dependant on SBC configuration

Note: make sure to allow inbound and/or outbound calls on the Sonus SBC.

## AudioCodes SBC

Please note the configuration shown below is an example and might have more or less steps than necessary, depending on the environment.

1. Navigate to Proxy Sets and configure a SIP Interface (Setup menu -> Signaling & Media tab -> Core Entities folder -> SIP Interfaces).

Parameter	Value
Index	1
Name	Algo-SIPint (suggested)
Network Interface	LAN-IF-Skype
Application Type	SBC
UDP Port	5070
TCP and TLS	0

2. Configure two Proxy Sets. One to define the destination address of the Skype for Business server and a second one for the Algo endpoint. Open the Proxy Sets table (Setup menu -> Signaling & Media tab -> Core Entities folder -> Proxy Sets).

Proxy Sets

SRD

**GENERAL**

Index: 1

Name: [Redacted]

Gateway IPv4 SIP Interface: -- View

SBC IPv4 SIP Interface: [Redacted] View

TLS Context Name: -- View

**REDUNDANCY**

Redundancy Mode: [Redacted]

Proxy Hot Swap: [Redacted]

Proxy Load Balancing Method: [Redacted]

Min. Active Servers for Load Balancing: 1

**KEEP ALIVE**

Proxy Keep-Alive: [Redacted]

Proxy Keep-Alive Time [sec]: [Redacted]

Keep-Alive Failure Responses: [Redacted]

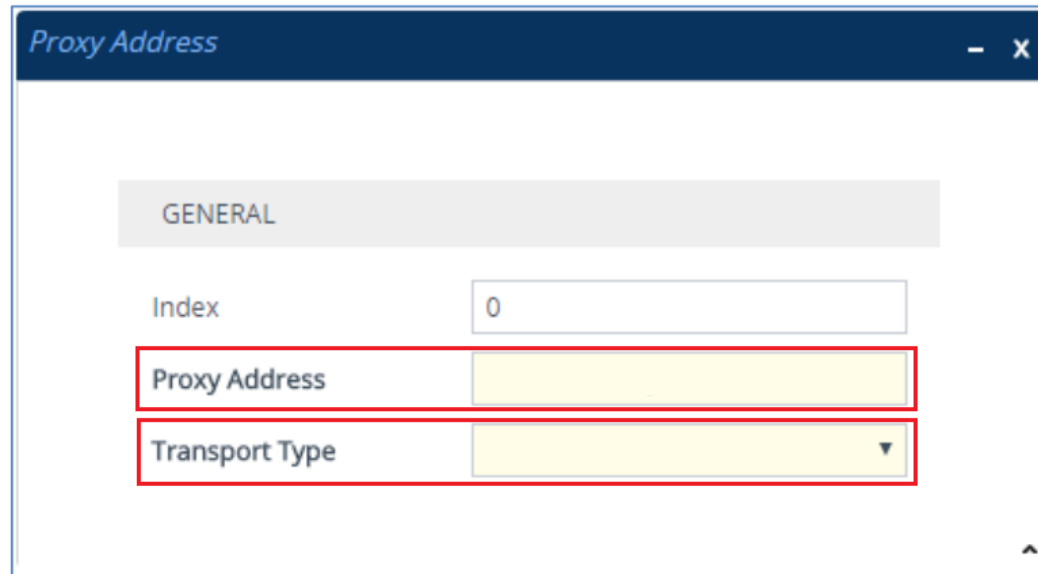
**ADVANCED**

Classification Input: IP Address only

DNS Resolve Method: [Redacted]

Cancel APPLY

3. In Proxy Address, enter the IP address of the Skype for Business server and set transport type as required. Repeat the step for the Algo endpoint.



The image shows a software window titled "Proxy Address" with a dark blue header bar containing a minus sign and a close button. Below the header is a light gray tab labeled "GENERAL". The main area contains three input fields: "Index" with the value "0", "Proxy Address" (highlighted with a red border), and "Transport Type" (a dropdown menu, also highlighted with a red border). A small upward-pointing arrow is visible in the bottom right corner of the window.

- To create an IP Group, open the IP Groups table (Setup menu -> Signaling & Media tab -> Core Entities folder -> IP Groups). Give it a Name, Type = "User", Proxy Set = use the one just created, IP Profile = Skype Interface.

The screenshot displays the ALGO web interface for configuring IP Groups. The top navigation bar includes 'SETUP', 'MONITOR', and 'TROUBLESHOOT'. The left sidebar shows a navigation tree with 'IP Groups (14)' selected. The main content area is divided into three sections: 'GENERAL', 'QUALITY OF EXPERIENCE', and 'MESSAGE MANIPULATION'. The 'GENERAL' section contains fields for Index (14), Name, Topology Location (Down), Type (User), Proxy Set, IP Profile, and Media Realm. The 'QUALITY OF EXPERIENCE' section contains fields for QoS Profile and Bandwidth Profile. The 'MESSAGE MANIPULATION' section contains fields for Inbound Message Manipulation Set, Outbound Message Manipulation Set, and Message Manipulation User Defined String 1.



5. Create the IP-to-IP Call Routing Rules, to define the routes for forwarding SIP messages received from one IP entity to another. Source IP Group is the Group created in step 4 with the Request Type = "REGISTER".

The screenshot displays the Algorouter administration interface. The top navigation bar includes 'ocaudiocodes', 'SETUP', 'MONITOR', and 'TROUBLESHOOT'. Below this, there are tabs for 'IP NETWORK', 'SIGNALING&MEDIA', and 'ADMINISTRATION'. The main content area is titled 'IP-to-IP Routing (45)'. On the left, a sidebar shows a 'TOPOLOGY VIEW' and a list of 'CORE ENTITIES' including Applications, SRDs, SIP Interfaces, Media Realms, Proxy Sets, and IP Groups. The 'Routing' section is expanded, showing 'IP-to-IP Routing' as the selected option. The main configuration area is divided into 'MATCH' and 'ACTION' sections. The 'MATCH' section includes fields for 'Source IP Group' and 'Request Type', both of which are highlighted with a red box. The 'ACTION' section includes fields for 'Destination SIP Interface', 'Destination Address', 'Destination Port', 'Destination Transport Type', 'IP Group Set', 'Call Setup Rules Set ID', 'Group Policy', 'Cost Group', 'Routing Tag Name', and 'Internal Action'. The 'Request Type' dropdown is set to 'REGISTER'.

6. Highlight the IP Routing just created and use the arrows to move it to the top of the list and click save in the top right corner.

The screenshot shows the Algorouter web interface. At the top, there is a navigation bar with 'audiocodes' logo and tabs for 'SETUP', 'MONITOR', and 'TROUBLESHOOT'. Below this is a secondary navigation bar with 'IP NETWORK', 'SIGNALING/MEDIA', and 'ADMINISTRATION'. The main content area is divided into a left sidebar and a main table.

**Left Sidebar (TOPOLOGY VIEW):**

- CORE ENTITIES
  - Applications Routing
  - SROs (1)
  - SIP Interfaces (4)
  - Media Realms (3)
  - Proxy Sets (15)
  - IP Groups (13)
- MEDIA
- CODECS & PROFILES
- SBC
  - Classification (2)
  - Routing
    - Routing Policies (1)
    - IP-to-IP Routing (46)**
    - Alternative Reasons (1)
    - IP Group Set (0)
  - Manipulation

**Main Table (IP-to-IP Routing (46)):**

Buttons: + New, Edit, Import, +, -, Refresh

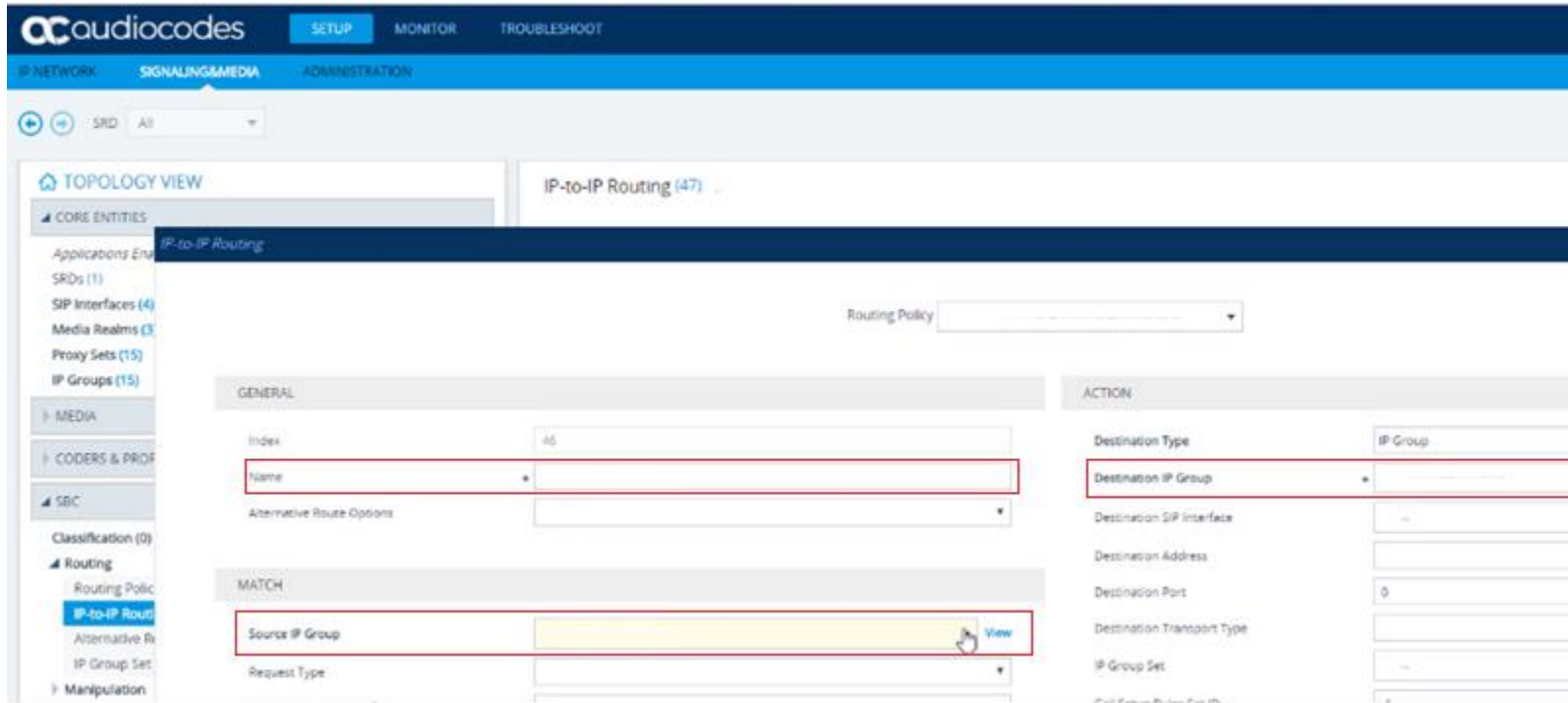
Page: Page 1 of 3, Show 20 records per page

INDEX	NAME	ROUTING POLICY	ALTERNATIVE ROUTE OPTIONS	SOURCE IP GROUP	REQUEST TYPE	SOURCE USERNAME PREFIX	DESTINATION USERNAME PREFIX	DESTINATION TYPE	DESTINATION GROUP
1	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...
41	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...
43	...	...	...	...	...	...	...	...	...
44	...	...	...	...	...	...	...	...	...
45	...	...	...	...	...	...	...	...	...
46	...	...	...	...	...	...	...	...	...

7. To create a new Ip-to-Ip Routing use the “+New” button on the top of the list. Enter the new extension in the Destination Username Prefix.

The screenshot displays the Algorouter web interface for configuring IP-to-IP Routing. The interface includes a top navigation bar with 'audiocodes' logo and tabs for 'SETUP', 'MONITOR', and 'TROUBLESHOOT'. Below this is a secondary navigation bar with 'IP NETWORK', 'SIGNALING & MEDIA', and 'ADMINISTRATION'. The main content area is titled 'IP-to-IP Routing' and features a 'MATCH' section with various fields. The 'Destination Username Prefix' field is highlighted with a red box. To the right of the 'MATCH' section is a 'DESTINATION' section with fields for 'Destination SIP Interface', 'Destination Address', 'Destination Port', 'Destination Transport Type', 'IP Group Set', 'Call Setup Rules Set ID', 'Group Policy', 'Cost Group', 'Routing Tag Name', and 'Internal Action'. A left sidebar shows a 'TOPOLOGY VIEW' with a tree structure of 'CORE ENTITIES' including 'Applications Enabling', 'SRDs (1)', 'SIP Interfaces (4)', 'Media Realms (3)', 'Proxy Sets (15)', 'IP Groups (15)', 'MEDIA', 'CODERS & PROFILES', 'SEC', 'Classification (0)', 'Routing', 'Routing Policies (1)', 'IP-to-IP Routing (44)', 'Alternative Reasons (1)', 'IP Group Set (0)', and 'Manipulation'.

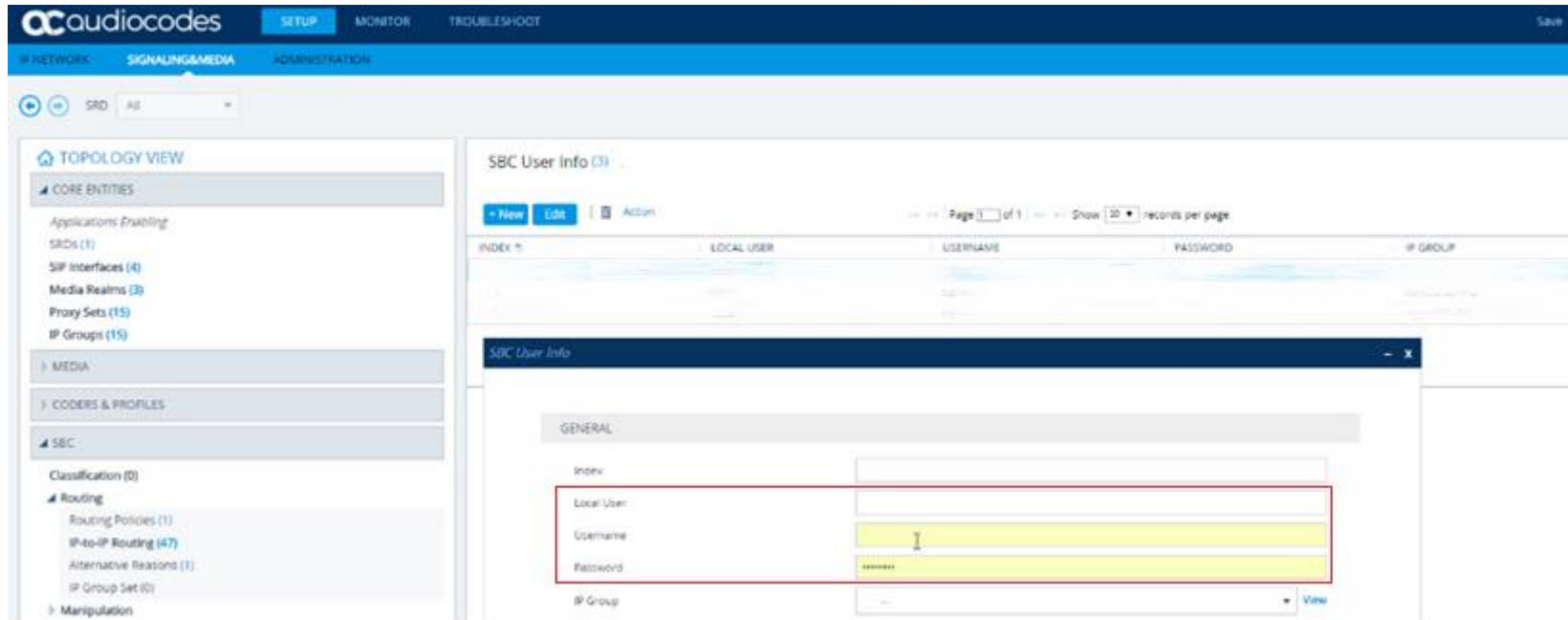
8. Set the Name, Destination IP Group (use the Group created in step 4) and Source IP Group (Skype).



9. Highlight the IP Routing just created and use the arrows to move it to the top of the list and click save in the top right corner.

The screenshot shows the Algorouter administration interface. The top navigation bar includes 'audiocodes' logo, 'SETUP', 'MONITOR', and 'TROUBLESHOOT'. Below this is a sub-navigation bar with 'NETWORK', 'SIGNALING/MEDIA', and 'ADMINISTRATION'. The main content area is titled 'IP-to-IP Routing (47)'. On the left, there is a 'TOPOLOGY VIEW' sidebar with a tree structure under 'CORE ENTITIES' and 'SEC'. The 'Routing' section is expanded, showing 'IP-to-IP Routing (47)' highlighted. The main table displays a list of routing policies with columns: INDEX #, NAME, ROUTING POLICY, ALTERNATIVE ROUTE OPTIONS, SOURCE IP GROUP, REQUEST TYPE, SOURCE USERNAME PREFIX, DESTINATION USERNAME PREFIX, DESTINATION TYPE, and DESTINATION GROUP. A 'Save' button in the top right corner is highlighted with a red box.

10. Navigate to Setup menu -> Signaling & Media tab -> SBC folder -> User Information, to create the SBC User Info. Local User will be the destination prefix created in step 7.



11. On the Algo Endpoint, under Basic Settings -> SIP, set:

- SIP Domain = SBC address and port number
- Extension = Local User
- Authentication ID = Username
- Authentication Password = Password