

Sonus & Audiocodes SBC Configuration Notes

Need Help?

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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]

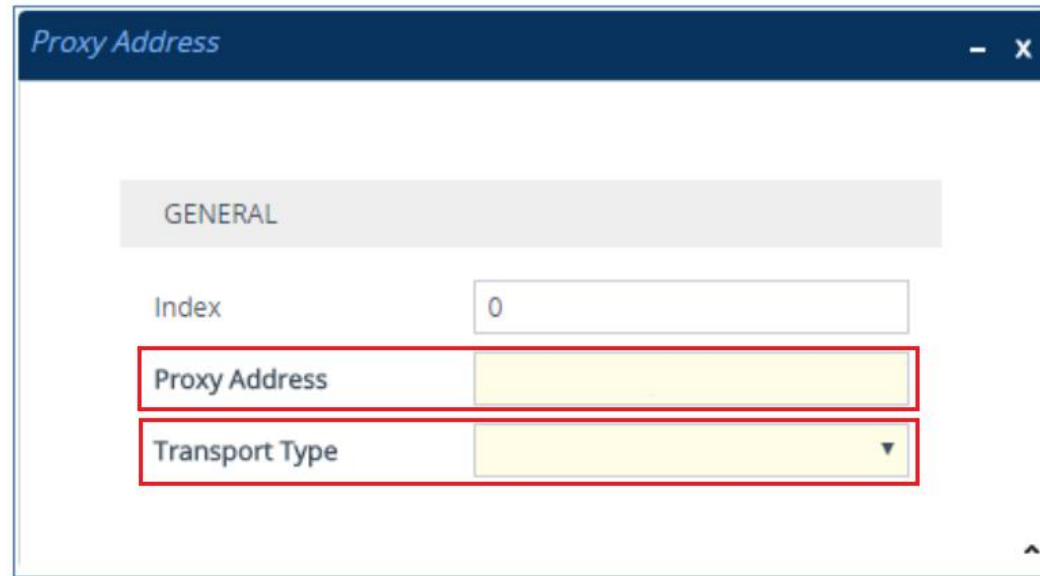
ADVANCED

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 content area contains three input fields:

- An "Index" field with a text input containing the number "0".
- A "Proxy Address" field with a yellow highlighted text input, outlined in red.
- A "Transport Type" field with a yellow highlighted dropdown menu, outlined in red.

A small upward-pointing arrow is visible in the bottom right corner of the window's content area.

- 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.

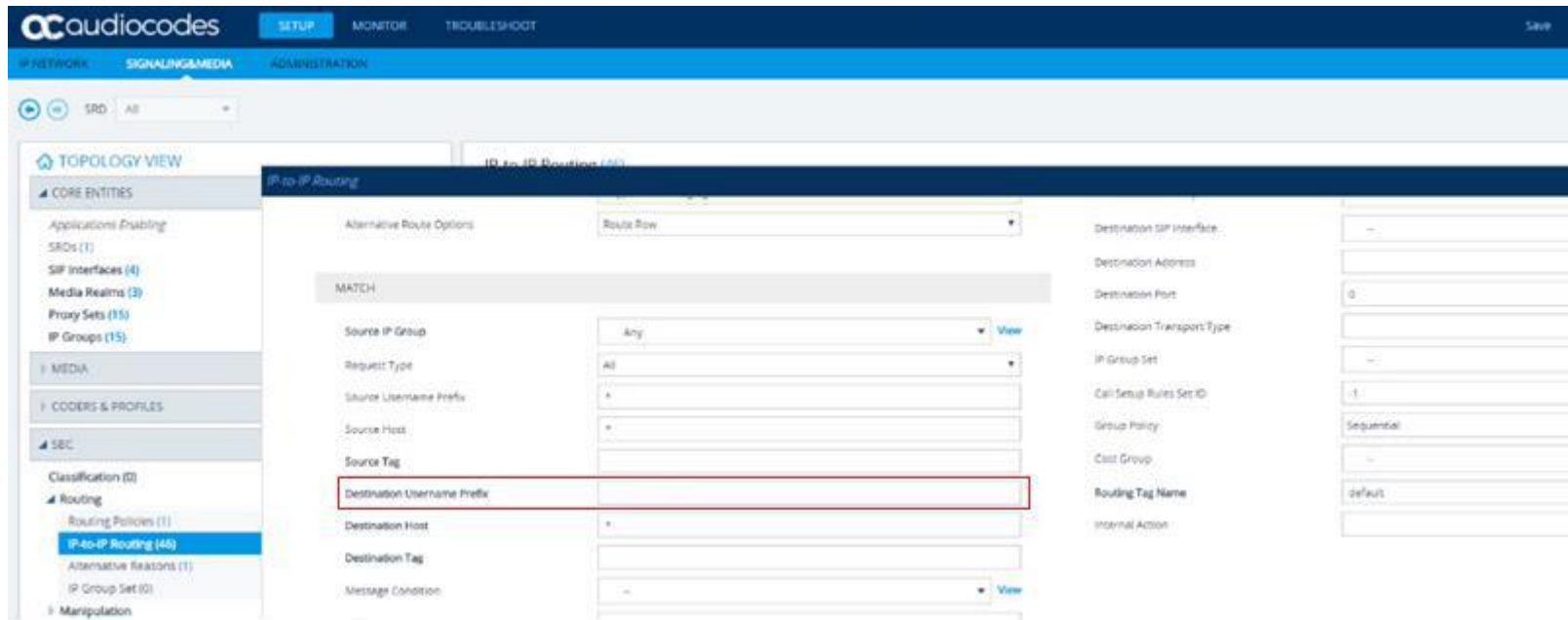
5. Create the IP-to-IP Call Routing Rules, to define the routes for forwarding SIP messages received from one IP entity to another. Source IP Group is the Group created in step 4 with the Request Type = "REGISTER".

The screenshot displays the Audiocodes administration console. 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' with a tree structure under 'CORE ENTITIES' including Applications, SRDs, SIP Interfaces, Media Realms, Proxy Sets, and IP Groups. The 'Routing' section is expanded, showing 'IP-to-IP Routing' selected. The main configuration area is divided into 'MATCH' and 'ACTION' sections. The 'MATCH' section is highlighted with a red box and contains the following fields: 'Source IP Group' (dropdown menu), 'Request Type' (dropdown menu), 'Source Username Prefix' (text field with asterisk), 'Source Host' (text field with asterisk), 'Source Tag' (text field), 'Destination Username Prefix' (text field with asterisk), 'Destination Host' (text field with asterisk), and 'Destination Tag' (text field). The 'ACTION' section on the right includes: 'Destination SIP Interface' (dropdown menu, value '-'), 'Destination Address' (text field), 'Destination Port' (text field, value '0'), 'Destination Transport Type' (dropdown menu, value '-'), 'IP Group Set' (dropdown menu, value '-'), 'Call Setup Rules Set ID' (text field, value '-1'), 'Group Policy' (dropdown menu, value 'Sequential'), 'Cost Group' (dropdown menu, value '-'), 'Routing Tag Name' (text field, value 'default'), and 'Internal Action' (text field).

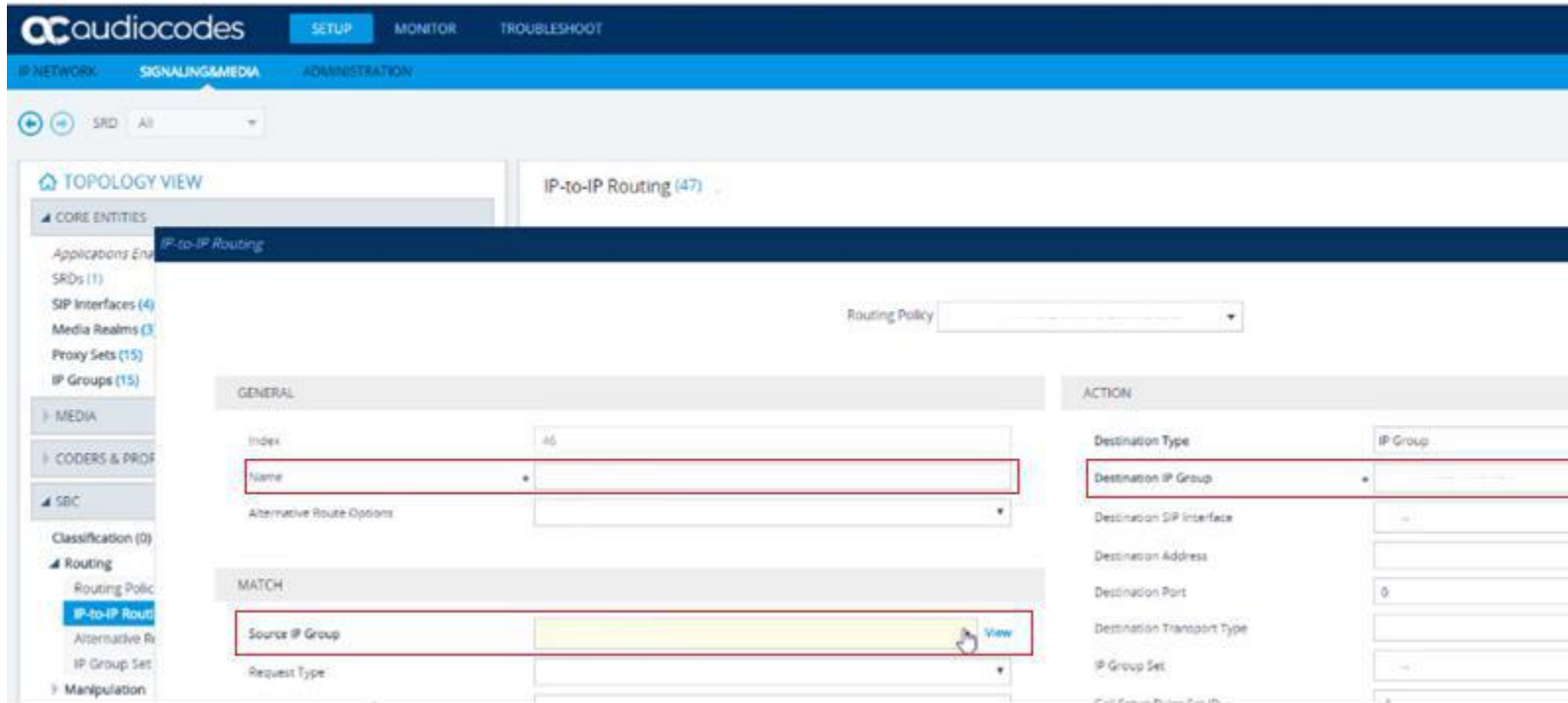
6. Highlight the IP Routing just created and use the arrows to move it to the top of the list and click save in the top right corner.

The screenshot shows the Algorouter web interface. The top navigation bar includes 'audiocodes', 'SETUP', 'MONITOR', and 'TROUBLESHOOT'. Below this, there are tabs for 'IP NETWORK', 'SIGNALING/MEDIA', and 'ADMINISTRATION'. The left sidebar is titled 'TOPOLOGY VIEW' and contains a tree structure of entities. Under 'CORE ENTITIES', there are sections for 'Applications Routing', 'SROs (1)', 'SIP Interfaces (4)', 'Media Realms (3)', 'Proxy Sets (15)', and 'IP Groups (13)'. Under 'SBC', there are sections for 'Classification (2)', 'Routing', and 'Manipulation'. The 'Routing' section is expanded, showing 'Routing Policies (1)', 'IP-to-IP Routing (46)', 'Alternative Reasons (1)', and 'IP Group Set (0)'. The 'IP-to-IP Routing (46)' item is highlighted in blue. The main content area is titled 'IP-to-IP Routing (46)' and shows a table with the following columns: INDEX, NAME, ROUTING POLICY, ALTERNATIVE ROUTE OPTIONS, SOURCE IP GROUP, REQUEST TYPE, SOURCE USERNAME PREFIX, DESTINATION USERNAME PREFIX, DESTINATION TYPE, and DESTINATION GROUP. Above the table, there are buttons for 'New', 'Edit', and 'Import', along with a 'Page 1 of 3' indicator and a 'Show 20 records per page' dropdown. A mouse cursor is pointing at the 'New' button.

- 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.



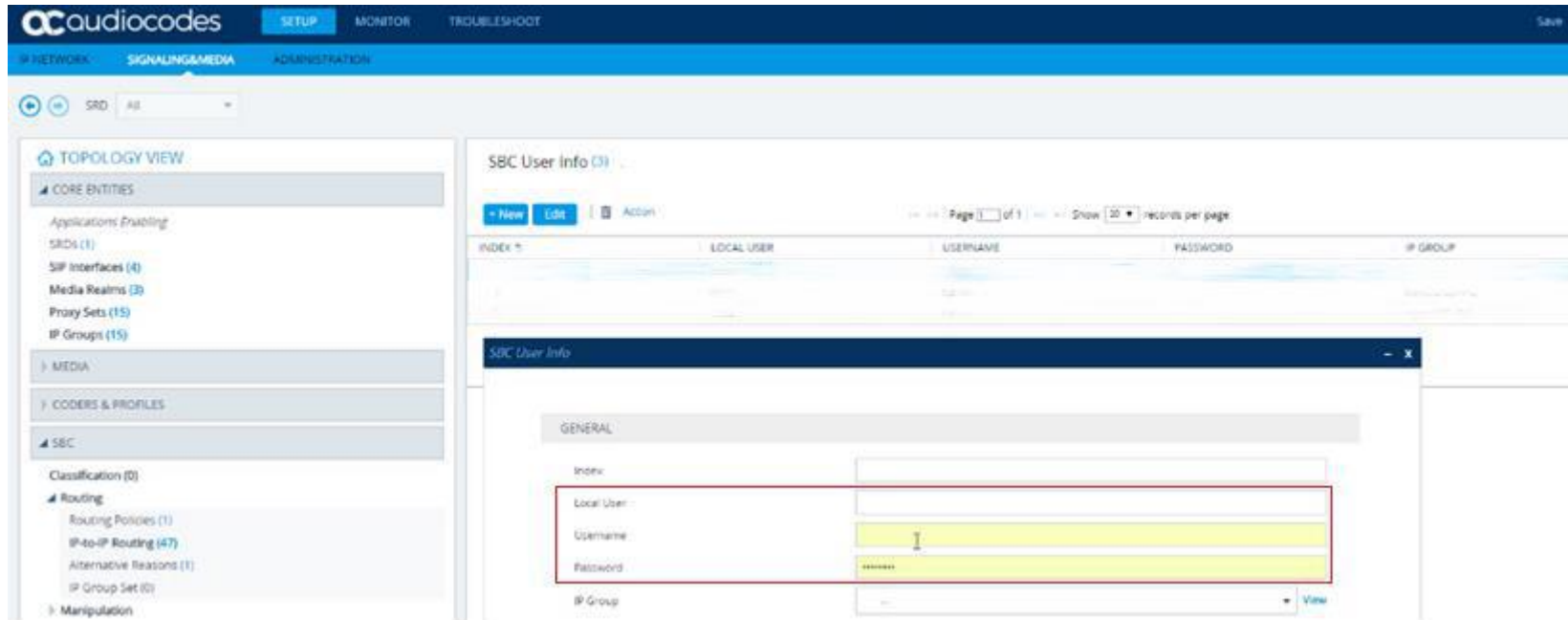
8. Set the Name, Destination IP Group (use the Group created in step 4) and Source IP Group (Skype).



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 web interface. At the top, there are navigation tabs for 'SETUP', 'MONITOR', and 'TROUBLESHOOT'. Below these are sub-tabs for 'IP NETWORK', 'SIGNALING/MEDIA', and 'ADMINISTRATION'. A 'Save' button in the top right corner is highlighted with a red box. On the left, a 'TOPOLOGY VIEW' sidebar lists various entities, with 'Routing' expanded to show 'IP-to-IP Routing (47)' selected. The main content area displays a table titled 'IP-to-IP Routing (47)' with columns for INDEX, NAME, ROUTING POLICY, ALTERNATIVE ROUTE OPTIONS, SOURCE IP GROUP, REQUEST TYPE, SOURCE USERNAME PREFIX, DESTINATION USERNAME PREFIX, DESTINATION TYPE, and DESTINATION GROUP. The table contains several rows of data, with the first row highlighted in blue. At the top of the table, there are buttons for '+ New', 'Edit', and 'Insert', along with pagination controls showing 'Page 1 of 5' and 'Show 20 records per page'.

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