

**MiCollab Advanced Messaging 9.4
AudioCodes Mediant800B Series Media
Gateway
Installation and Replacement
Spare Parts Document**

For version 9.4 and above

Notice

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Preface

This document is written for Mitel certified MiCollab Advanced Messaging (MiCollab AM) technicians who are experienced with MiCollab AM and are familiar with its procedures and terminology. This book assumes you are familiar with MiCollab AM and the Microsoft Windows® operating system.

This document applies to MiCollab AM version 9.4 and later. It consists of the following parts:

- AudioCodes Mediant800B E-SBC Media Gateway technical specification
- Verifying the Mediant800B Series firmware version
- Preparing the Mediant800B Series for Service
- Installing the Mediant800B Series
- Programming the Mediant800B Series

References

A catalog of technical documentation is included on the MiCollab AM Installation Media. If you are installing any advanced applications, such as Networking and Fax Server applications, you should refer to the appropriate technical documentation for application and installation information.

Documentation

The technical documentation is produced in the PDF format and requires the PDF reader to view it. The MiCollab AM Documentation Library includes the following documents and resources:

- **Administration Documentation.** Available as a PDF only. Contains the following:
 - **Administration Guides.** Available as a PDF only. Contains administrative guides for administrators about how to manage and configure the messaging system.
 - **Quick Reference Cards (QRC).** Contains shortcuts and quick instructions telling subscribers how to access and use the messaging system.
 - **User Guides.** Available as a PDF only. Contains user guides for subscribers about accessing the messaging system and checking and sending messages.
- **Server Documentation.** Available as a PDF only. Contains the following:
 - **Developer Resources.** Contains programming guides and API references for developers for integrating the server clients and web applications with MiCollab AM.
 - **Installation and Configuration.** Available as a PDF only. Contains installation and configuration guides for server administrators about how to install and configure the messaging system.

- **Integration Technical Notes (ITN).** Contains a set of guides that describe the integration methods and instructions for a variety of phone systems to work with MiCollab AM. The ITNs are generally used by resellers or administrators who are experienced with MiCollab AM and familiar with the integration procedures and terminology.
- **Spare Parts Documentation.** Contains a set of guides that describe the instructions for installing and configuring hardware parts to work with MiCollab AM. These documents are written for Mitel-certified MiCollab AM technicians who are experienced with MiCollab AM and familiar with the procedures and terminology.
- **Software Release Notice (SRN).** This notice introduces the new features, capabilities, and hardware/software requirements for the corresponding MiCollab AM version.

Documentation Updates

Documentation updates may be available from the following sources:

- Mitel-certified technicians can view or download documents and program files from our partner web site: www.mitel.com

Help

The primary source of information about MiCollab AM is the online help available within any of its administrative utilities. You can access **Help** by clicking the **Help** button in the dialog box or window in which you are working.

Document Conventions

The following conventions are used in this document:

- **Key Names.** Names of keys on the keyboard are shown in a box.
 | Example: **Enter**
- When two keys must be pressed simultaneously, they are joined by a + sign.
 | Example: **Alt** + **Tab**
- **Reference to Document** Titles of other documents are shown in italics.
 | Example: See the *System Installation and Configuration Guide*.
- **User Interface (UI) Element Names.** Names of UI elements such as dialog boxes, windows, screens, menu items, tabs, buttons, and icons are shown in bold.
 | Example: On the **Startup** screen, click the **Start** icon.
- **User Input.** Information required to be typed is shown in italics.
 | Example: Type the password *voicemail*.

- **Warning, Caution, Important, and Notes.** Text for the contents that require attention are shown as follows:

WARNING A warning paragraph advises you of circumstances that can result in the loss of data, harm to the MiCollab AM System Server platform, or personal harm.

CAUTION Failure to follow these recommendations can result in unauthorized access to the system and consequent loss of data.

IMPORTANT An important paragraph gives decision-making information or informs you of the order in which tasks need to be completed.

NOTE A note gives additional information, provides an explanation, or indicates an exception to the information in the preceding text.

For more detailed documents, refer to the following list of references:

Table 1. References

Document Type	Document Title
Administration Documentation	System Administration Guide
Server Documentation	System Installation Guide
Spare Parts Documentation	Hardware Warranty Program Guide
Spare Parts Documentation	Installation and Replacement Guides for AudioCodes
Integration Technical Note	The related Integration Technical Note for the integration you are installing

Frequently Used Terms

Table 2. Frequently Used Terms

Terms	Description
System Server	<p>Term refers to an organization's computer platform(s) that have MiCollab AM software installed and handles the core system functions such as storing messages, database.</p> <p>It can also refer generically to the System Server platform, the Call Server platform, or both. The term is most often used to describe a software or hardware</p>

	installation or configuration practice where the role of the server platform is not specifically expressed.
Call Server	Term refers to an organization's computer platforms that have MiCollab AM software installed and serve as the interface to the system (PBX). The Call Server(s) interface with the System Server for the purpose of accessing messages, and database.

Overview

This document explains how to install and configure the AudioCodes Mediant800B E-SBC Media Gateway for use with MiCollab AM. The AudioCodes Mediant800B E-SBC is also referred to as AudioCodes and is used throughout this document in reference to the AudioCodes Mediant800B E-SBC Media Gateway.

The AudioCodes Mediant800B E-SBC Series supports up to four E1 or T1 spans as QSIG trunks for connecting to the legacy telephone system and four FXS/FXO ports for PSTN connections if needed. There are also four Ethernet connections to provide network connectivity as well as connect to MiCollab AM for the SIP trunk integration. The AudioCodes acts as a bridge between the telephone system and MiCollab AM. It converts the E1/T1 signaling of the telephone system into the SIP/RTP protocol for transmission over the network to MiCollab AM. The MiCollab AM lines are configured as a SIP trunk to communicate with the AudioCodes.

Calls are sent to MiCollab AM through the AudioCodes, the data is matched with the ringing extension, and MiCollab AM answers with the appropriate dialog. Outgoing calls from MiCollab AM are routed through the AudioCodes to the telephone system. Message waiting indicator (MWI) operation is also performed through the AudioCodes.

Mitel recommends that you read this entire document before installing the hardware.

Before You Begin

Review this section before performing any of the procedures in this document. This section provides important information about electrostatic discharge and the tools and equipment required to complete the installation.

Electrostatic Discharge (ESD) Warning

Computer components can be extremely sensitive to electrostatic discharge (ESD). Do not open the static-protective container until necessary. Before removing the unit from the static-protective container, touch the container to a grounded, unpainted metal surface for at least two seconds (this drains the static electricity from the container and from your body).

Gathering Tools and Equipment

Before you begin your modifications to the MiCollab AM platform, verify that you have the following required tools and equipment:

- MiCollab AM Installation Media
- One grounded AC outlet for each AudioCodes you are installing
- One Cat5e or better PBX line interface cable with an RJ-45 plug for each port on the AudioCodes you are installing

- One Ethernet network cable for connection to the LAN
- MiCollab AM License (feature) key to enable the correct number of lines

Technical Specifications of the AudioCodes Mediant Series

Table 3 lists the AudioCodes Mediant Series model numbers approved for use with MiCollab AM.

Table 3. Approved Model Numbers for AudioCodes Mediant Series Session Border Controller

Mediant Series Model	No. T1 or E1 spans	No. of Ports	No. of RJ-45 Connectors
Mediant800B E-SBC	4	30	4

Table 4 lists the technical specifications for the AudioCodes Mediant800 Series Session Border Controllers (SBCs) approved for use with MiCollab AM.

Table 4. Mediant800B E-SBC Series Technical Specifications

Feature	Specification
Network Interface	4 GE or 4 GE + 8FE interfaces configured in 1+1 redundancy or as individual ports. These are 100 Base-T Ethernet port (RJ-45)
VoIP Protocol	SIP (per RFC 3261) RTP/RTCP for Voice
Voice Codec	G.711
Call Routing	Round Robin through IP load balancing
Protocol Support	T-1 ISDN Q.sig, E-1 Q.sig
QOS (Quality of Service)	ToS, IP Precedence
Configuration Management	Web GUI w/help, Telnet, BOOTP, TFTP, SNMP (for alarm reporting)
Power	US-100-240V 4A 50-60 Hz
Operating Temperature	+45oF to +122oF (5oC to 40oC)
Physical Dimensions	1 RU (Rack Unit) Height=1.68 in. (4.27 cm) Width=19in. (48.26 cm) Length=14.2 in. (36.07 cm) Weight=11.1 lbs (5.03 kg)

Refer to the AudioCodes website: www.audiocodes.com for more information on the AudioCodes Mediant800B E-SBC Series.

Verifying the Current Firmware Version

Once you have performed the initial configuration steps for the AudioCodes to communicate with your network and it has visibility to the MiCollab AM, you can verify the current firmware version through the administration web interface.

To determine the current version:

- 1 From the Call Server open the web browser, and then enter the TCP/IP address for the AudioCodes.
- 2 Log on to the AudioCodes, and then select **Actions** > **License Key**.
- 3 Determine the current AudioCodes Board Type. Refer to [Table 5](#) for the correct version for the MiCollab AM version you are supporting.

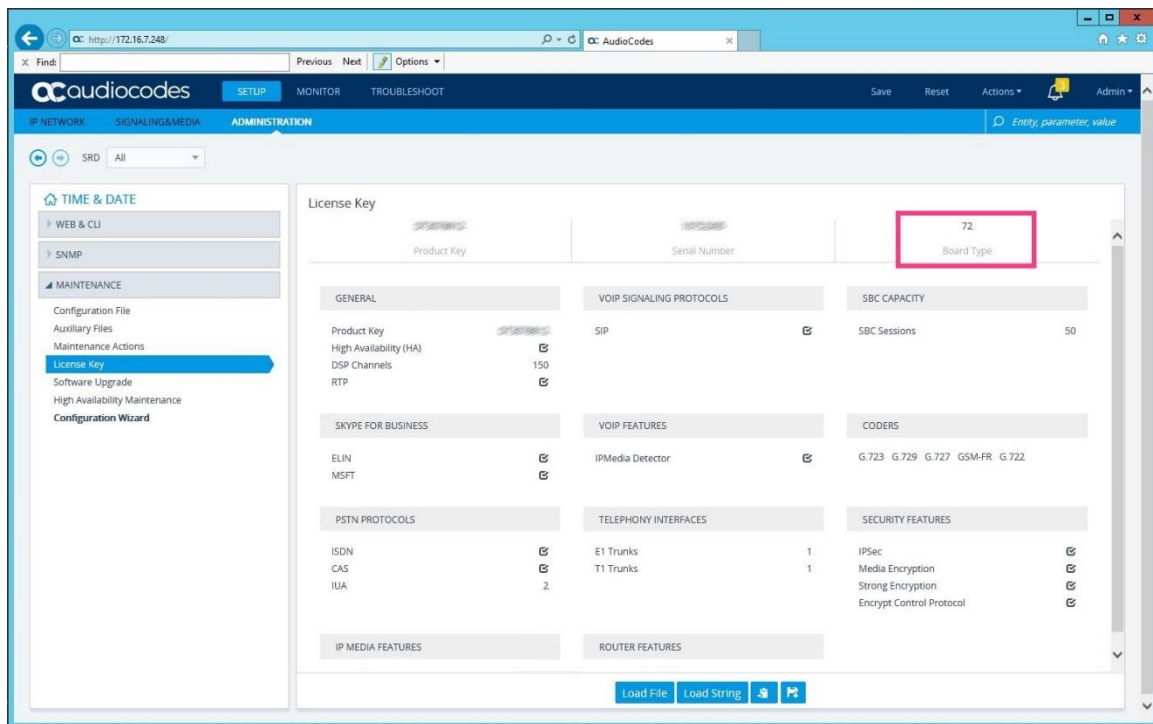


Figure 1. Example of License Key Screen

Table 5. Supported AudioCodes Board Types

MiCollab AM version	AudioCodes Board Type / Version
9.0x	72

Table 6. Supported AudioCodes Versions

SW Release	DSP Channels	Fax Codec	SBC Capacity	VoIP Protocols
7.2	150	V.17	50	SIP

Preparing the AudioCodes Mediant800B SBC Series for Installation

The AudioCodes Mediant800B E-SBC Media Gateway is a self-contained unit. It provides the ports necessary to connect the E1/T1 trunks from the telephone system, Ethernet ports for connection to the network, COM ports for maintenance, and a connection for AC power. LED indicators on the unit provide status indication of the ports and the unit. This section discusses the various indicators and connectors of the AudioCodes.

Mediant800B E-SBC Front Panel Indicators

The front panel of the AudioCodes provides status LED indicators for the unit and for each E1/T1 port.



Figure 2. AudioCodes Mediant800B Front Panel

The Front Panel indicators are:

- **Power Indicator**—a multi-colored LED that displays the unit's status
 - *Unlit* – indicates there is no power to the unit
 - *Steady Red* – indicates the power-on initialization state
 - *Steady Green* – indicates the power-on initialization is complete and the unit is waiting for the application to load
 - *Flashing Green* – indicates the application initialization is complete and that the unit is active
- **Status Indicator**—indicates the unit's network real time processing (RTP) activity
 - *Unlit* – indicates the unit is not transmitting or receiving RTP packets
 - *Steady Green* – indicates RTP packet information is being exchanged with the Call Server

- **LAN Status Indicator** – displays the unit's Ethernet connection status
 - *Unlit* – indicates no network connection is established
 - *Flashing Green* – indicates an established network connection and I/O traffic
- **E1/T1 Status Indicators**—multi-colored LEDs that indicate the link status of the E1/T1 port

Status Indicator

 - *Unlit* – indicates trunk is not active
 - *Steady Red* – indicates a Red alarm condition at the local end of the E1/T1 link
 - *Steady Orange* – indicates a Red alarm condition at the remote end of the E1/T1 link
 - *Steady Green* – indicates that the operational layer is in sync
- **AC Power Switch** – Two-position rocker switch to power the unit on or off
- **AC Power Connector** – Power connector for connection with the unit's power supply cord. Supports 115VAC for North America or 220VAC commonly used in the EU
- **Console Connector** – CLI is available with an RJ-45 Serial connection. This would be used for serial port integrations.

Table 7. CLI RJ-45 Connection Settings

Value	Description
115,200 bps	Baud Rate
8	Data Bits
None	Parity
1	Stop Bits
None	Flow Control

- **E1/T1 Connectors**—RJ-45 connectors for connection to the E1/T1 trunks

Table 8. RJ-45 Connections

RJ45 Pins	Mediant Series
1	RX Ring
2	RX Tip
3	
4	TX Ring

5 TX Tip

6

7

8

- **LAN1 and LAN2 Ethernet Ports**-The LAN1 connector is a shielded 8-pin modular jack that allows you to connect to a 10/100 BaseT Ethernet. This interface is used to connect the unit to VoIP endpoints and to connect users to the unit's maintenance interface. The LAN2 connector is a shielded 8-pin modular jack that allows you to connect to a 10/100 BaseT Ethernet. This interface can be used to connect users to the unit's maintenance interface.

Installing the AudioCodes Mediant Series

The AudioCodes Mediant800B E-SBC consists of two pieces, the AudioCodes unit and the power supply cord. The unit should be installed in a 19-inch standard rack suitable for computerized equipment and near an acceptable source of AC power where connections to the telephone system and the network are easily made.

To install the AudioCodes Series:

- 1 Verify the AudioCodes Series unit is supplied with the correct number of E1/T1 ports for the PBX integration you are installing. See [Table 3](#) for more information on model numbers.
- 2 Unpack the unit and power it using an adequate AC power source.
- 3 Install the unit in a standard 19-inch rack.
- 4 **IMPORTANT** Follow the AudioCodes specifications with regards to the AC supply power, grounding, and ambient temperatures when installing each unit.
- 5 Connect a 10/100 network cable to Ethernet port 1. The TCP/IP address must be negotiable to the Call Server you are integrating.
- 6 Connect the PBX E1/T1 lines to each port.
- 7 Verify that the AudioCodes firmware version is correct for the MiCollab AM software version you are installing.
- 8 Program the AudioCodes for use with MiCollab AM. See the next section, [Programming the AudioCodes Mediant Series](#), for information on how to setup and configure the AudioCodes for use with MiCollab AM.

Programming the AudioCodes Mediant Series

Follow the recommendations and programming examples in this section to create a connection with the Call Server.

IMPORTANT The AudioCodes Mediant800B E-SBC must have a TCP/IP address that MiCollab AM can communicate with over the network. If you do not know this information, consult your network administrator for the correct address information required for installing both the AudioCodes and MiCollab AM.

Configuring the TCP/IP Address

The initial programming mode of the AudioCodes can be accessed in either of two ways—through the COM/serial port of the AudioCodes or through the AudioCodes Web interface. Choose one of the following procedures to configure the TCP/IP address.

To configure the TCP/IP address through the Web Interface:

NOTE All AudioCodes have the same default TCP/IP address at initial startup. If you are installing more than one AudioCodes Mediant Series, you must connect them to the network one at a time to avoid TCP/IP address conflicts.

- 1 Connect the AudioCodes to the LAN MiCollab AM is currently operating on.
- 2 You must temporarily change the TCP/IP address of the Call Server to access the AudioCodes.
The default TCP/IP address of the AudioCodes is *192.168.0.2*.
Change the Call Server TCP/IP address so it communicates on the same subnet as the AudioCodes.
Example: *192.168.0.10*
- 3 Start the web browser on the Call Server, and then enter the following address in the address bar:
http://192.168.0.2.
- 4 When the System Login dialog box appears, enter the default user name, *Admin*, and then enter the default password, *admin*.
- 5 Click **OK**.
- 6 Select the **Configuration > IP** web page from the main menu.
Change the unit's TCP/IP address from the default address by entering the new TCP/IP address in the **Client TCP/IP** address box.
- 7 Enter a new subnet mask in the **Client Subnet Mask** box.

- 8 Enter the TCP/IP address of the default network gateway router in the **Default Network Gateway Address** box.
- 9 Click the **Apply Changes** button to save the configuration in the database.
- 10 Click **Restart**, or select **System > Restart** from the main menu. When the **Restart Web** page appears, click **Restart Unit Now**.

NOTE The AudioCodes must be restarted for the changes to take effect.

- 11 Change the temporary Call Server TCP/IP address back to the previous working TCP/IP address. You should now be able to connect to the AudioCodes Web interface using the new TCP/IP address.
- 12 Proceed to [Completing the AudioCodes SIP Trunk SIP Integration Installation](#).

To configure the TCP/IP address through the serial port:

- 1 Connect the serial port of the AudioCodes to a serial port of the MiCollab AM server with an RJ45 to Serial cable.
- 2 Select **Start > Programs > Accessories > Communications > HyperTerminal**.
- 3 Enter a value such as AudioCodes in the **New Connection** dialog box, and then click **OK**.
- 4 In the **Connect To** dialog box, select the Serial port to communicate to the AudioCodes, and then click **OK**.
- 5 In the COM port dialog box configure the COM port to the following settings:
 - Baud Rate = 115,200
 - Parity = None
 - Data Bits = 8
 - Stop Bits = 1
 - Hardware Flow Control = None/Off
- 6 Press the **Enter** key until the prompt > appears.
- 7 At the CLI prompt type the username (default is "Admin" – case sensitive).
- 8 Type the default password, (default is "Admin" – case sensitive), and then press **Enter**.
- 9 At the prompt type enable, and then press **Enter**. You are prompted to enter the password again (Admin)
- 10 Access the Network configuration mode: Type '# configure network', and then press **Enter**.
- 11 Access the IP Interfaces table: type '# interface network-if 0', and then press **Enter**.
- 12 Configure the prefix length: type '# prefix-length <prefix length/subnet mask, e.g., 16, and then press **Enter**.
- 13 Configure the Default Gateway address: type '# gateway <IP address>', and then press **Enter**.
- 14 Apply your settings: type '# activate', and then press **Enter**.

- 15 Cable the device to your network on GE port 1. You can now access the device's management interface using this new OAMP IP address.

NOTE The AudioCodes may need to be restarted for the changes to take effect.

- 16 Proceed to [Completing the AudioCodes SIP Trunk SIP Integration Installation](#).

Completing the AudioCodes SIP Trunk SIP Integration Installation

Refer to the specific *Integration Technical Note* for the AudioCodes Mediant Series integration you are installing. See *System Installation and Configuration Guide* and *System Administration Guide*, or refer to the MiCollab AM online help system, for additional instructions.

For general information on integrations, you may also wish to consult the topic, *Integrating MiCollab AM with the Telephone System*, in *System Installation and Configuration Guide*, and the topic *Integrate the Telephony Server with the telephone system*, in the online help system.

Appendix A – Sample Configuration for an AudioCodes Mediant800B E-SBC Release 7.2 Series

Mitel reserves the right to update existing configuration file rules when necessary to allow MiCollab AM to integrate more closely with the AudioCodes. The parser file definitions on the AudioCodes Series can be updated using the web administrative interface of the AudioCodes.

Updates to the parser rules are managed by Mitel Technical Support. New parser files are posted to the Mitel Mitel Connect website along with related Technical Bulletins. You must download the new file to a location accessible to the Call Server to which you are connected with the AudioCodes before you can begin.

NOTE The following is an example reference only. Your actual configuration and setup will be unique.

The following is the configuration file (INI file) from AudioCodes Mediant 800B E-SBC, connected to an Avaya Communication Manager telephone system (PBX) and MiCollab AM.

```
;*****
;** Ini File **
;*****

;Board: Mediant 800B
;HW Board Type: 69  FK Board Type: 72
;Serial Number: *****
;Product Key: *****
;Slot Number: 1
;Software Version: 7.20A.158.056
;DSP Software Version: 5014AE3_R => 721.11
;Board IP Address: 172.16.7.248
;Board Subnet Mask: 255.255.252.0
;Board Default Gateway: 172.16.4.1
;Ram size: 512M  Flash size: 64M  Core speed: 500Mhz
;Num of DSP Cores: 3  Num DSP Channels: 150
;Num of physical LAN ports: 4
;Profile: NONE
;;;Key features;;Board Type: 72 ;DATA features: ;Coders: G723 G729 GSM-FR G727
G722 ;IP Media: VXML ;Security: IPSEC MediaEncryption StrongEncryption
EncryptControlProtocol ;System features: ProducKey=DT3078612 ;PSTN Protocols: ISDN
IUA=2 CAS ;ElTrunks=1 ;T1Trunks=1 ;DSP Voice features: IpmDetector ;Channel Type: RTP
DspCh=150 ;HA ;Control Protocols: MSFT ELIN SIP SBC=50 ;Default features;;Coders:
G711 G726;
```

```

;----- HW components-----
;
; Slot # : Module type : # of ports
;-----
;      1 : FALC56      : 1
;      2 : FXS         : 4
;      3 : Empty
;-----

[SYSTEM Params]

SyslogServerIP = 10.2.6.25
EnableSyslog = 1
;VpFileLastUpdateTime is hidden but has non-default value
TR069ACSPASSWORD = '$1$gQ=='
TR069CONNECTIONREQUESTPASSWORD = '$1$gQ=='
NTPServerIP = '0.0.0.0'
;AUPDNETWORKSOURCE is hidden but has non-default value
;LastConfigChangeTime is hidden but has non-default value
;BarrierFilename is hidden but has non-default value
;PM_gwINVITEDialogs is hidden but has non-default value
;PM_gwSBCMediaLegs is hidden but has non-default value
;PM_gwSBCTranscodingSessions is hidden but has non-default value

[BSP Params]

PCMLawSelect = 3
TDMBusClockSource = 4
UdpPortSpacing = 10
EnterCpuOverloadPercent = 99
ExitCpuOverloadPercent = 95
OSNInternalVLAN = 1

[Analog Params]

PolarityReversalType = 1
MinFlashHookTime = 100

[ControlProtocols Params]

AdminStateLockControl = 0

[MGCP Params]

[MEGACO Params]

[PSTN Params]

ProtocolType = 23

```

```

FramingMethod = D
ISDNIBehavior = 1073741824
DIGITALPORTINFO_0 = ''
DIGITALPORTINFO_1 = ''
DIGITALPORTINFO_2 = ''
DIGITALPORTINFO_3 = ''
DIGITALPORTINFO_4 = ''
DIGITALPORTINFO_5 = ''
DIGITALPORTINFO_6 = ''
DIGITALPORTINFO_7 = ''
DIGITALPORTINFO_8 = ''
DIGITALPORTINFO_9 = ''
DIGITALPORTINFO_10 = ''
DIGITALPORTINFO_11 = ''

[SS7 Params]

[Voice Engine Params]

FaxTransportMode = 0
V22ModemTransportType = 0
V23ModemTransportType = 0
V32ModemTransportType = 0
V34ModemTransportType = 0
V34FAXTRANSPORTTYPE = 0
CallProgressTonesFilename = 'usa_tones_13.dat'

[WEB Params]

UseRProductName = ''
LogoWidth = '145'
UseProductName = 1
HTTPSCipherString = 'RC4:EXP'
;HTTPSPkeyFileName is hidden but has non-default value
;HTTPSCertFileName is hidden but has non-default value

[SIP Params]

CHANNELSELECTMODE = 2
GWDEBUGLEVEL = 5
DEFAULTNUMBER = 'serveduser'
SIPGATEWAYNAME = 'blvu.avstlabs.local'
ENABLEMWI = 1
ISFAXUSED = 1
VoiceMailInterface = 3
SIPTRANSPORTTYPE = 1
ALLOWUNCLASSIFIEDCALLS = 1
MSLDAPPRIMARYKEY = 'telephoneNumber'
TESTCALLDTMFSTRING = ''
DISPLAYDEFAULTSIPPORT = 1
ENERGYDETECTORCMD = 587202560

```

```
ANSWERDETECTORCMD = 10486144
SubscriptionMode = 1
;GWAPPCONFIGURATIONVERSION is hidden but has non-default value
```

```
[IPsec Params]
```

```
[SNMP Params]
```

```
ifAlias_0 = 'Interface Alias.'
ifAlias_1 = 'Interface Alias.'
ifAlias_2 = 'Interface Alias.'
ifAlias_3 = 'Interface Alias.'
ifAlias_4 = 'Interface Alias.'
ifAlias_5 = 'Virtual LAN Interface'
ifAlias_6 = 'Interface Alias.'
ifAlias_7 = 'Interface Alias.'
ifAlias_8 = 'Interface Alias.'
ifAlias_9 = 'Interface Alias.'
ifAlias_10 = 'Interface Alias.'
ifAlias_11 = 'Interface Alias.'
ifAlias_12 = 'Interface Alias.'
ifAlias_13 = 'Interface Alias.'
ifAlias_14 = 'Interface Alias.'
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ifAlias_26 = 'Interface Alias.'
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ifAlias_28 = 'Interface Alias.'
ifAlias_29 = 'Interface Alias.'
ifAlias_30 = 'Interface Alias.'
ifAlias_31 = 'Interface Alias.'
ifAlias_32 = 'Interface Alias.'
ifAlias_33 = 'Interface Alias.'
ifAlias_34 = 'Interface Alias.'
ifAlias_35 = 'Interface Alias.'
ifAlias_36 = 'Interface Alias.'
ifAlias_37 = 'Interface Alias.'
ifAlias_38 = 'Interface Alias.'
ifAlias_39 = 'Interface Alias.'
ifAlias_40 = 'Interface Alias.'
ifAlias_41 = 'Interface Alias.'
ifAlias_42 = 'Interface Alias.'
```

```

ifAlias_43 = 'Interface Alias.'
ifAlias_44 = 'Interface Alias.'
ifAlias_45 = 'Interface Alias.'
ifAlias_46 = 'Interface Alias.'
ifAlias_47 = 'Interface Alias.'
ifAlias_48 = 'Interface Alias.'
ifAlias_49 = 'Interface Alias.'
ifAlias_50 = 'Interface Alias.'
ifAlias_51 = 'Interface Alias.'
ifAlias_52 = 'Interface Alias.'
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ifAlias_55 = 'Interface Alias.'
ifAlias_56 = 'Interface Alias.'
ifAlias_57 = 'Interface Alias.'
ifAlias_58 = 'Interface Alias.'
ifAlias_59 = 'Interface Alias.'

[ PhysicalPortsTable ]

FORMAT PhysicalPortsTable_Index = PhysicalPortsTable_Port, PhysicalPortsTable_Mode,
PhysicalPortsTable_SpeedDuplex, PhysicalPortsTable_PortDescription,
PhysicalPortsTable_GroupMember, PhysicalPortsTable_GroupStatus;
PhysicalPortsTable 0 = "GE_4_1", 1, 4, "User Port #0", "GROUP_1", "Active";
PhysicalPortsTable 1 = "GE_4_2", 1, 4, "User Port #1", "GROUP_1", "Redundant";
PhysicalPortsTable 2 = "GE_4_3", 1, 4, "User Port #2", "GROUP_2", "Active";
PhysicalPortsTable 3 = "GE_4_4", 1, 4, "User Port #3", "GROUP_2", "Redundant";

[ \PhysicalPortsTable ]

[ EtherGroupTable ]

FORMAT EtherGroupTable_Index = EtherGroupTable_Group, EtherGroupTable_Mode,
EtherGroupTable_Member1, EtherGroupTable_Member2;
EtherGroupTable 0 = "GROUP_1", 2, "GE_4_1", "GE_4_2";
EtherGroupTable 1 = "GROUP_2", 2, "GE_4_3", "GE_4_4";
EtherGroupTable 2 = "GROUP_3", 0, "", "";
EtherGroupTable 3 = "GROUP_4", 0, "", "";

[ \EtherGroupTable ]

[ DeviceTable ]

FORMAT DeviceTable_Index = DeviceTable_VlanID, DeviceTable_UnderlyingInterface,
DeviceTable_DeviceName, DeviceTable_Tagging, DeviceTable_MTU;
DeviceTable 0 = 1, "GROUP_1", "vlan 1", 0, 1500;

[ \DeviceTable ]

[ InterfaceTable ]

```

```

FORMAT InterfaceTable_Index = InterfaceTable_ApplicationTypes,
InterfaceTable_InterfaceMode, InterfaceTable_IPAddress, InterfaceTable_PrefixLength,
InterfaceTable_Gateway, InterfaceTable_InterfaceName,
InterfaceTable_PrimaryDNSServerIPAddress, InterfaceTable_SecondaryDNSServerIPAddress,
InterfaceTable_UnderlyingDevice;
InterfaceTable 0 = 6, 10, 172.16.7.248, 22, 172.16.4.1, "Voice", 172.16.1.22,
172.16.1.26, "vlan 1";

```

```
[ \InterfaceTable ]
```

```
[ WebUsers ]
```

```

FORMAT WebUsers_Index = WebUsers_Username, WebUsers_Password, WebUsers_Status,
WebUsers_PwAgeInterval, WebUsers_SessionLimit, WebUsers_CliSessionLimit,
WebUsers_SessionTimeout, WebUsers_BlockTime, WebUsers_UserLevel, WebUsers_PwNonce,
WebUsers_SSHPublicKey;
WebUsers 0 = "Admin",
"$1$mKv9/6L/q6v8kZTAksCQlZ+cz8mbm8zImdPQh4vW0IKGiN2K2oyEh42hoqfwoKag8PDx+/76+fqs5rfk6
7az57I=", 1, 0, 2, -1, 15, 60, 200, "5c392d05efc01bafda3711dc8d7a270f", "";
WebUsers 1 = "User",
"$1$HyZFUEQR0MfERgdSRIZT09NAFAHCgwEAlZdXwoKDlwGXndwJHdwcHMmcCwsfn1/KCtoZzdhZTRkZmo4O
2pqOGw=", 3, 0, 2, -1, 15, 60, 50, "a7a71a6e79e2c42860892cce984f93c4", "";

```

```
[ \WebUsers ]
```

```
[ TLSContexts ]
```

```

FORMAT TLSContexts_Index = TLSContexts_Name, TLSContexts_TLSVersion,
TLSContexts_DTLSVersion, TLSContexts_ServerCipherString,
TLSContexts_ClientCipherString, TLSContexts_RequireStrictCert,
TLSContexts_OcspEnable, TLSContexts_OcspServerPrimary,
TLSContexts_OcspServerSecondary, TLSContexts_OcspServerPort,
TLSContexts_OcspDefaultResponse, TLSContexts_DHKeySize;
TLSContexts 0 = "default", 0, 0, "RC4:AES128", "DEFAULT", 0, 0, , , 2560, 0, 1024;

```

```
[ \TLSContexts ]
```

```
[ AudioCodersGroups ]
```

```

FORMAT AudioCodersGroups_Index = AudioCodersGroups_Name;
AudioCodersGroups 0 = "AudioCodersGroups_0";
AudioCodersGroups 1 = "AudioCodersGroups_1";

```

```
[ \AudioCodersGroups ]
```

```
[ AllowedAudioCodersGroups ]
```

```

FORMAT AllowedAudioCodersGroups_Index = AllowedAudioCodersGroups_Name;
AllowedAudioCodersGroups 0 = "AllowedAudioCodersGroups_0";
AllowedAudioCodersGroups 1 = "AllowedAudioCodersGroups_1";

```

```
[ \AllowedAudioCodersGroups ]
```

```
[ IpProfile ]
```

```
FORMAT IpProfile_Index = IpProfile_ProfileName, IpProfile_IpPreference,  
IpProfile_CodersGroupName, IpProfile_IsFaxUsed, IpProfile_JitterBufMinDelay,  
IpProfile_JitterBufOptFactor, IpProfile_IPDiffServ, IpProfile_SigIPDiffServ,  
IpProfile_RTPRedundancyDepth, IpProfile_CNGmode, IpProfile_VxxTransportType,  
IpProfile_NSEMode, IpProfile_IsDTMFUsed, IpProfile_PlayRBTone2IP,  
IpProfile_EnableEarlyMedia, IpProfile_ProgressIndicator2IP,  
IpProfile_EnableEchoCanceller, IpProfile_CopyDest2RedirectNumber,  
IpProfile_MediaSecurityBehaviour, IpProfile_CallLimit,  
IpProfile_DisconnectOnBrokenConnection, IpProfile_FirstTxDtmfOption,  
IpProfile_SecondTxDtmfOption, IpProfile_RxDTMFOption, IpProfile_EnableHold,  
IpProfile_InputGain, IpProfile_VoiceVolume, IpProfile_AddIEInSetup,  
IpProfile_SBCExtensionCodersGroupName, IpProfile_MediaIPVersionPreference,  
IpProfile_TranscodingMode, IpProfile_SBCAllowedMediaTypes,  
IpProfile_SBCAllowedAudioCodersGroupName, IpProfile_SBCAllowedVideoCodersGroupName,  
IpProfile_SBCAllowedCodersMode, IpProfile_SBCMediaSecurityBehaviour,  
IpProfile_SBCRFC2833Behavior, IpProfile_SBCAlternativeDTMFMethod,  
IpProfile_SBCSendMultipleDTMFMethods, IpProfile_SBCAssertIdentity,  
IpProfile_AMDSensitivityParameterSuit, IpProfile_AMDSensitivityLevel,  
IpProfile_AMDMaxGreetingTime, IpProfile_AMDMaxPostSilenceGreetingTime,  
IpProfile_SBCDiversionsMode, IpProfile_SBCHistoryInfoMode,  
IpProfile_EnableQSIGTunneling, IpProfile_SBCFaxCodersGroupName,  
IpProfile_SBCFaxBehavior, IpProfile_SBCFaxOfferMode, IpProfile_SBCFaxAnswerMode,  
IpProfile_SbcPrackMode, IpProfile_SBCSessionExpiresMode,  
IpProfile_SBCRemoteUpdateSupport, IpProfile_SBCRemoteReinviteSupport,  
IpProfile_SBCRemoteDelayedOfferSupport, IpProfile_SBCRemoteReferBehavior,  
IpProfile_SBCRemote3xxBehavior, IpProfile_SBCRemoteMultiple18xSupport,  
IpProfile_SBCRemoteEarlyMediaResponseType, IpProfile_SBCRemoteEarlyMediaSupport,  
IpProfile_EnableSymmetricMKI, IpProfile_MKISize, IpProfile_SBCEnforceMKISize,  
IpProfile_SBCRemoteEarlyMediaRTP, IpProfile_SBCRemoteSupportsRFC3960,  
IpProfile_SBCRemoteCanPlayRingback, IpProfile_EnableEarly183,  
IpProfile_EarlyAnswerTimeout, IpProfile_SBC2833DTMFPayloadType,  
IpProfile_SBCUserRegistrationTime, IpProfile_ResetSRTPStateUponRekey,  
IpProfile_AmdMode, IpProfile_SBCReliableHeldToneSource, IpProfile_GeneratesSRTPKeys,  
IpProfile_SBCPlayHeldTone, IpProfile_SBCRemoteHoldFormat,  
IpProfile_SBCRemoteReplacesBehavior, IpProfile_SBCSDPptimeAnswer,  
IpProfile_SBCPreferredPTime, IpProfile_SBCUseSilenceSupp,  
IpProfile_SBCRTPRedundancyBehavior, IpProfile_SBCPlayRBTToTransferee,  
IpProfile_SBCRTCPMode, IpProfile_SBCJitterCompensation,  
IpProfile_SBCRemoteRenegotiateOnFaxDetection, IpProfile_JitterBufMaxDelay,  
IpProfile_SBCUserBehindUdpNATRegistrationTime,  
IpProfile_SBCUserBehindTcpNATRegistrationTime, IpProfile_SBCSDPHandlerRTCPAttribute,  
IpProfile_SBCRemoveCryptoLifetimeInSDP, IpProfile_SBCIceMode, IpProfile_SBCRTCPMux,  
IpProfile_SBCFaxReroutingMode, IpProfile_SBCMaxCallDuration,  
IpProfile_SBCGenerateRTP, IpProfile_SBCISUPBodyHandling, IpProfile_SBCISUPVariant,  
IpProfile_SBCVoiceQualityEnhancement, IpProfile_SBCMaxOpusBW,  
IpProfile_LocalRingbackTone, IpProfile_LocalHeldTone;  
IpProfile 1 = "T1 Gateway IP Profile", 1, "AudioCodersGroups_1", 1, 10, 10, 46, 40,  
0, 0, 0, 0, 0, 0, 0, -1, 1, 0, 0, -1, 1, 4, -1, 1, 1, 0, 0, "", "", 0, 0, "", "", "",  
0, 0, 0, 0, 0, 0, 0, 8, 300, 400, 0, 0, 0, "", 0, 0, 1, 3, 0, 2, 2, 1, 0, 0, 1, 0, 1,
```

```

0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, -1, -
1, 0, 0, 0, 0, 0, 0, 0, -1, -1, -1, -1, -1, 0, "", 0, 0, 0, 0, 0, 0, 0, 0, 0, -1, -1;
IpProfile 2 = "CX IP Group", 1, "AudioCodersGroups_1", 1, 10, 10, 46, 40, 0, 0, 0, 0,
0, 0, 0, -1, 1, 0, 0, -1, 1, 4, -1, 1, 1, 0, 0, "", "", 0, 0, "",
"AllowedAudioCodersGroups_1", "", 0, 0, 0, 0, 0, 0, 0, 8, 300, 400, 0, 0, 0, "", 0,
0, 1, 3, 0, 2, 2, 1, 0, 0, 1, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 300, -1, -1, 0, 0, 0, 0, 0, 0, 0, -1, -1, -1, -1, -1, 0,
"", 0, 0, 0, 0, 0, 0, 0, 0, 0, -1, -1;

[ \IpProfile ]

[ CpMediaRealm ]

FORMAT CpMediaRealm_Index = CpMediaRealm_MediaRealmName, CpMediaRealm_IPv4IF,
CpMediaRealm_IPv6IF, CpMediaRealm_PortRangeStart, CpMediaRealm_MediaSessionLeg,
CpMediaRealm_PortRangeEnd, CpMediaRealm_IsDefault, CpMediaRealm_QoeProfile,
CpMediaRealm_BWProfile, CpMediaRealm_TopologyLocation;
CpMediaRealm 1 = "MR T1 Gateway", "Voice", "", 7000, 50, 7499, 0, "", "", 0;

[ \CpMediaRealm ]

[ SBCRoutingPolicy ]

FORMAT SBCRoutingPolicy_Index = SBCRoutingPolicy_Name, SBCRoutingPolicy_LCREnable,
SBCRoutingPolicy_LCRAverageCallLength, SBCRoutingPolicy_LCRDefaultCost,
SBCRoutingPolicy_LdapServerGroupName;
SBCRoutingPolicy 0 = "Default_SBCRoutingPolicy", 0, 1, 0, "";

[ \SBCRoutingPolicy ]

[ SRD ]

FORMAT SRD_Index = SRD_Name, SRD_BlockUnRegUsers, SRD_MaxNumOfRegUsers,
SRD_EnableUnAuthenticatedRegistrations, SRD_SharingPolicy, SRD_UsedByRoutingServer,
SRD_SBCOperationMode, SRD_SBCRoutingPolicyName, SRD_SBCDialPlanName;
SRD 1 = "SRD T1 Gateway", 0, -1, 1, 0, 1, 0, "Default_SBCRoutingPolicy", "";

[ \SRD ]

[ MessagePolicy ]

FORMAT MessagePolicy_Index = MessagePolicy_Name, MessagePolicy_MaxMessageLength,
MessagePolicy_MaxHeaderLength, MessagePolicy_MaxBodyLength,
MessagePolicy_MaxNumHeaders, MessagePolicy_MaxNumBodies, MessagePolicy_SendRejection,
MessagePolicy_MethodList, MessagePolicy_MethodListType, MessagePolicy_BodyList,
MessagePolicy_BodyListType, MessagePolicy_UseMaliciousSignatureDB;
MessagePolicy 0 = "Malicious Signature DB Protection", -1, -1, -1, -1, -1, 1, "", 0,
"", 0, 1;

[ \MessagePolicy ]

```

```
[ SIPInterface ]
```

```
FORMAT SIPInterface_Index = SIPInterface_InterfaceName,  
SIPInterface_NetworkInterface, SIPInterface_ApplicationType, SIPInterface_UDPPort,  
SIPInterface_TCPPort, SIPInterface_TLSPort, SIPInterface_AdditionalUDPPorts,  
SIPInterface_SRDName, SIPInterface_MessagePolicyName, SIPInterface_TLSContext,  
SIPInterface_TLSMutualAuthentication, SIPInterface_TCPKeepaliveEnable,  
SIPInterface_ClassificationFailureResponseType, SIPInterface_PreClassificationManSet,  
SIPInterface_EncapsulatingProtocol, SIPInterface_MediaRealm,  
SIPInterface_SBCDirectMedia, SIPInterface_BlockUnRegUsers,  
SIPInterface_MaxNumOfRegUsers, SIPInterface_EnableUnAuthenticatedRegistrations,  
SIPInterface_UsedByRoutingServer, SIPInterface_TopologyLocation,  
SIPInterface_PreParsingManSetName;
```

```
SIPInterface 1 = "T1 Gateway SIP Interface", "Voice", 0, 5060, 5060, 5061, "", "SRD  
T1 Gateway", "", "", -1, 0, 500, -1, 0, "MR T1 Gateway", 0, -1, -1, -1, 1, 0, "";
```

```
[ \SIPInterface ]
```

```
[ ProxySet ]
```

```
FORMAT ProxySet_Index = ProxySet_ProxyName, ProxySet_EnableProxyKeepAlive,  
ProxySet_ProxyKeepAliveTime, ProxySet_ProxyLoadBalancingMethod,  
ProxySet_IsProxyHotSwap, ProxySet_SRDName, ProxySet_ClassificationInput,  
ProxySet_TLSContextName, ProxySet_ProxyRedundancyMode, ProxySet_DNSResolveMethod,  
ProxySet_KeepAliveFailureResp, ProxySet_GWIPv4SIPInterfaceName,  
ProxySet_SBCIPv4SIPInterfaceName, ProxySet_GWIPv6SIPInterfaceName,  
ProxySet_SBCIPv6SIPInterfaceName, ProxySet_MinActiveServersLB,  
ProxySet_SuccessDetectionRetries, ProxySet_SuccessDetectionInterval,  
ProxySet_FailureDetectionRetransmissions;
```

```
ProxySet 1 = "ProxySet to T1 Gateway Module", 0, 60, 0, 0, "SRD T1 Gateway", 0, "", -  
1, -1, "", "T1 Gateway SIP Interface", "", "", "", 1, 1, 10, -1;
```

```
[ \ProxySet ]
```

```
[ IPGroup ]
```

```
FORMAT IPGroup_Index = IPGroup_Type, IPGroup_Name, IPGroup_ProxySetName,  
IPGroup_SIPGroupName, IPGroup_ContactUser, IPGroup_SipReRoutingMode,  
IPGroup_AlwaysUseRouteTable, IPGroup_SRDName, IPGroup_MediaRealm,  
IPGroup_ClassifyByProxySet, IPGroup_ProfileName, IPGroup_MaxNumOfRegUsers,  
IPGroup_InboundManSet, IPGroup_OutboundManSet, IPGroup_RegistrationMode,  
IPGroup_AuthenticationMode, IPGroup_MethodList, IPGroup_EnablesSBCCClientForking,  
IPGroup_SourceUriInput, IPGroup_DestUriInput, IPGroup_ContactName, IPGroup_Username,  
IPGroup_Password, IPGroup_UIFormat, IPGroup_QOEProfile, IPGroup_BWProfile,  
IPGroup_AlwaysUseSourceAddr, IPGroup_MsgManUserDef1, IPGroup_MsgManUserDef2,  
IPGroup_SIPConnect, IPGroup_SBCPSAPMode, IPGroup_DTLSContext,  
IPGroup_CreatedByRoutingServer, IPGroup_UsedByRoutingServer,  
IPGroup_SBCOperationMode, IPGroup_SBCRouteUsingRequestURIPort,  
IPGroup_SBCKeepOriginalCallID, IPGroup_TopologyLocation, IPGroup_SBCDialPlanName,  
IPGroup_CallSetupRulesSetId, IPGroup_Tags, IPGroup_SBCUserStickiness,  
IPGroup_UserUDPPortAssignment;
```

```
IPGroup 1 = 0, "T1 Gateway IP Group", "ProxySet to T1 Gateway Module", "", "4001", -  
1, 0, "SRD T1 Gateway", "MR T1 Gateway", 0, "T1 Gateway IP Profile", -1, -1, -1, 0,  
0, "", 0, -1, -1, "", "$1$gQ==", 0, "", "", 0, "", "", 0, 0, "default", 0, 0, -1,  
0, 0, 0, "", -1, "", 0, 0;
```

```

[ \IPGroup ]

[ PREFIX ]

FORMAT PREFIX_Index = PREFIX_RouteName, PREFIX_DestinationPrefix, PREFIX_DestAddress,
PREFIX_SourcePrefix, PREFIX_ProfileName, PREFIX_MeteringCodeName, PREFIX_DestPort,
PREFIX_DestIPGroupName, PREFIX_TransportType, PREFIX_SrcTrunkGroupID,
PREFIX_DestSIPInterfaceName, PREFIX_CostGroup, PREFIX_ForkingGroup,
PREFIX_CallSetupRulesSetId, PREFIX_ConnectivityStatus;
PREFIX 0 = "From Avaya to CX", "4900", "", "*", "CX IP Group", "", 0, "T1 Gateway IP
Group", 0, -1, "T1 Gateway SIP Interface", "", -1, -1, "Not Available";
PREFIX 1 = "Transfers", "*", "", "*", "", "", 0, "T1 Gateway IP Group", -1, -1, "T1
Gateway SIP Interface", "", -1, -1, "Not Available";

[ \PREFIX ]

[ TrunkGroup ]

FORMAT TrunkGroup_Index = TrunkGroup_TrunkGroupNum, TrunkGroup_FirstTrunkId,
TrunkGroup_FirstBChannel, TrunkGroup_LastBChannel, TrunkGroup_FirstPhoneNumber,
TrunkGroup_ProfileName, TrunkGroup_LastTrunkId, TrunkGroup_Module;
TrunkGroup 0 = 1, 0, 1, 24, "4900", "", 0, 1;

[ \TrunkGroup ]

[ PstnPrefix ]

FORMAT PstnPrefix_Index = PstnPrefix_RouteName, PstnPrefix_DestPrefix,
PstnPrefix_TrunkGroupId, PstnPrefix_SourcePrefix, PstnPrefix_SourceAddress,
PstnPrefix_ProfileName, PstnPrefix_SrcIPGroupName, PstnPrefix_DestHostPrefix,
PstnPrefix_SrcHostPrefix, PstnPrefix_SrcSIPInterfaceName, PstnPrefix_TrunkId,
PstnPrefix_CallSetupRulesSetId, PstnPrefix_DestType;
PstnPrefix 0 = "test", "*", 1, "*", "*", "", "", "*", "*", "Any", -1, -1, 0;

[ \PstnPrefix ]

[ ProxyIp ]

FORMAT ProxyIp_Index = ProxyIp_ProxySetId, ProxyIp_ProxyIpIndex, ProxyIp_IpAddress,
ProxyIp_TransportType;
ProxyIp 2 = "1", 0, "172.16.20.2:5060", 1;

[ \ProxyIp ]

[ TrunkGroupSettings ]

FORMAT TrunkGroupSettings_Index = TrunkGroupSettings_TrunkGroupId,
TrunkGroupSettings_ChannelSelectMode, TrunkGroupSettings_RegistrationMode,
TrunkGroupSettings_GatewayName, TrunkGroupSettings_ContactUser,
TrunkGroupSettings_ServingIPGroupName, TrunkGroupSettings_MWIIInterrogationType,

```

```

TrunkGroupSettings_TrunkGroupName, TrunkGroupSettings_UsedByRoutingServer,
TrunkGroupSettings_AdminState;
TrunkGroupSettings 0 = 1, 3, 4, "", "", "", 0, "TEST", 1, 0;

[ \TrunkGroupSettings ]

[ GwRoutingPolicy ]

FORMAT GwRoutingPolicy_Index = GwRoutingPolicy_Name, GwRoutingPolicy_LCREnable,
GwRoutingPolicy_LCRAverageCallLength, GwRoutingPolicy_LCRDefaultCost,
GwRoutingPolicy_LdapServerGroupName;
GwRoutingPolicy 0 = "GwRoutingPolicy", 0, 1, 0, "";

[ \GwRoutingPolicy ]

[ ResourcePriorityNetworkDomains ]

FORMAT ResourcePriorityNetworkDomains_Index = ResourcePriorityNetworkDomains_Name,
ResourcePriorityNetworkDomains_Ip2TelInterworking;
ResourcePriorityNetworkDomains 1 = "dsn", 1;
ResourcePriorityNetworkDomains 2 = "dod", 1;
ResourcePriorityNetworkDomains 3 = "drsn", 1;
ResourcePriorityNetworkDomains 5 = "uc", 1;
ResourcePriorityNetworkDomains 7 = "cuc", 1;

[ \ResourcePriorityNetworkDomains ]

[ MaliciousSignatureDB ]

FORMAT MaliciousSignatureDB_Index = MaliciousSignatureDB_Name,
MaliciousSignatureDB_Pattern;
MaliciousSignatureDB 0 = "SIPVicious", "Header.User-Agent.content prefix 'friendly-
scanner'";
MaliciousSignatureDB 1 = "SIPScan", "Header.User-Agent.content prefix 'sip-scan'";
MaliciousSignatureDB 2 = "Smap", "Header.User-Agent.content prefix 'smap'";
MaliciousSignatureDB 3 = "Sipsak", "Header.User-Agent.content prefix 'sipsak'";
MaliciousSignatureDB 4 = "Sipcli", "Header.User-Agent.content prefix 'sipcli'";
MaliciousSignatureDB 5 = "Sivus", "Header.User-Agent.content prefix 'SIVuS'";
MaliciousSignatureDB 6 = "Gulp", "Header.User-Agent.content prefix 'Gulp'";
MaliciousSignatureDB 7 = "Sipv", "Header.User-Agent.content prefix 'sipv'";
MaliciousSignatureDB 8 = "Sundayddr Worm", "Header.User-Agent.content prefix
'sundayddr'";
MaliciousSignatureDB 9 = "VaxIPUserAgent", "Header.User-Agent.content prefix
'VaxIPUserAgent'";
MaliciousSignatureDB 10 = "VaxSIPUserAgent", "Header.User-Agent.content prefix
'VaxSIPUserAgent'";
MaliciousSignatureDB 11 = "SipArmyKnife", "Header.User-Agent.content prefix
'siparmyknife'";

[ \MaliciousSignatureDB ]

```

```
[ AllowedAudioCoders ]

FORMAT AllowedAudioCoders_Index = AllowedAudioCoders_AllowedAudioCodersGroupName,
AllowedAudioCoders_AllowedAudioCodersIndex, AllowedAudioCoders_CoderID,
AllowedAudioCoders_UserDefineCoder;
AllowedAudioCoders 0 = "AllowedAudioCodersGroups_0", 0, 2, "";
AllowedAudioCoders 1 = "AllowedAudioCodersGroups_1", 0, 2, "";

[ \AllowedAudioCoders ]


[ AudioCoders ]

FORMAT AudioCoders_Index = AudioCoders_AudioCodersGroupId,
AudioCoders_AudioCodersIndex, AudioCoders_Name, AudioCoders_pTime, AudioCoders_rate,
AudioCoders_PayloadType, AudioCoders_Sce, AudioCoders_CoderSpecific;
AudioCoders 0 = "AudioCodersGroups_0", 0, 2, 2, 90, -1, 0, "";
AudioCoders 1 = "AudioCodersGroups_0", 1, 3, 2, 19, -1, 0, "";
AudioCoders 2 = "AudioCodersGroups_1", 0, 2, 2, 90, -1, 0, "";

[ \AudioCoders ]
```

NOTE The above INI file is from a working configuration between an Avaya Communication Manager telephone system (PBX), AudioCodes Mediant 800B E-SBC, and MiCollab AM and is for reference purposes only. Your actual configuration and setup will be unique.

The following lab environment information is provided for reference.

Telephone system (PBX): Avaya Communication Manager

- Relevant IP Address: 172.16.20.11
- T1 QSIG Trunk Group, DS1 Interface, Signaling Group, Hunt Group, Coverage Path, AAR Routing Entry, Digital, and IP/SIP Station configuration
- Relevant Hunt Group pilot number used in test: 4900
- AudioCodes E-SBC Gateway: AudioCodes Mediant 800B E-SBC Version 7.2
- Relevant IP Address: 172.16.7.248
- Mitel, MiCollab AM for 9.4 deployed on Windows2012 R2 Server
- Relevant IP Address: 172.16.20.2

The system(s) listed above were used in lab environment.

NOTE Specific screen captures are listed below and may or may not represent the entire configuration needed to get MiCollab AM configured completely. They are for reference purposes only. Your actual configuration and setup will be unique and you should work with your vendor to complete the integration.

Connect to the AudioCodes Gateway Web interface and log into the AudioCodes Gateway with Administrator privileges to perform the configuration steps.

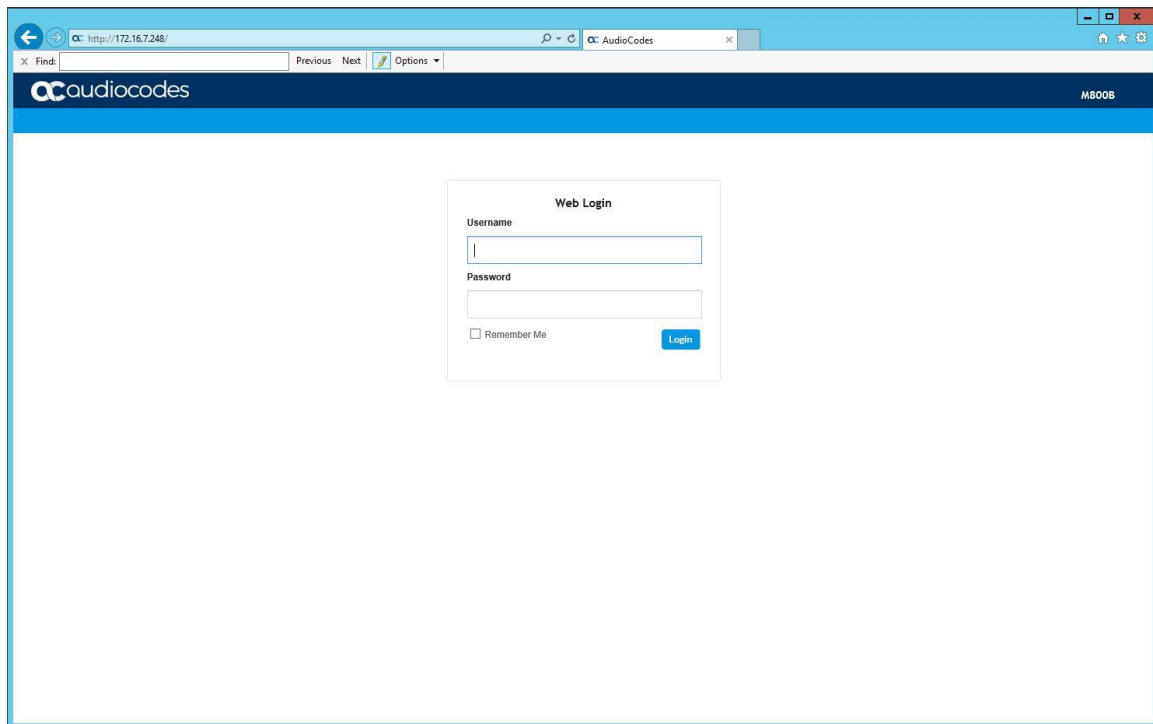


Figure 3. Example of Web Login Screen

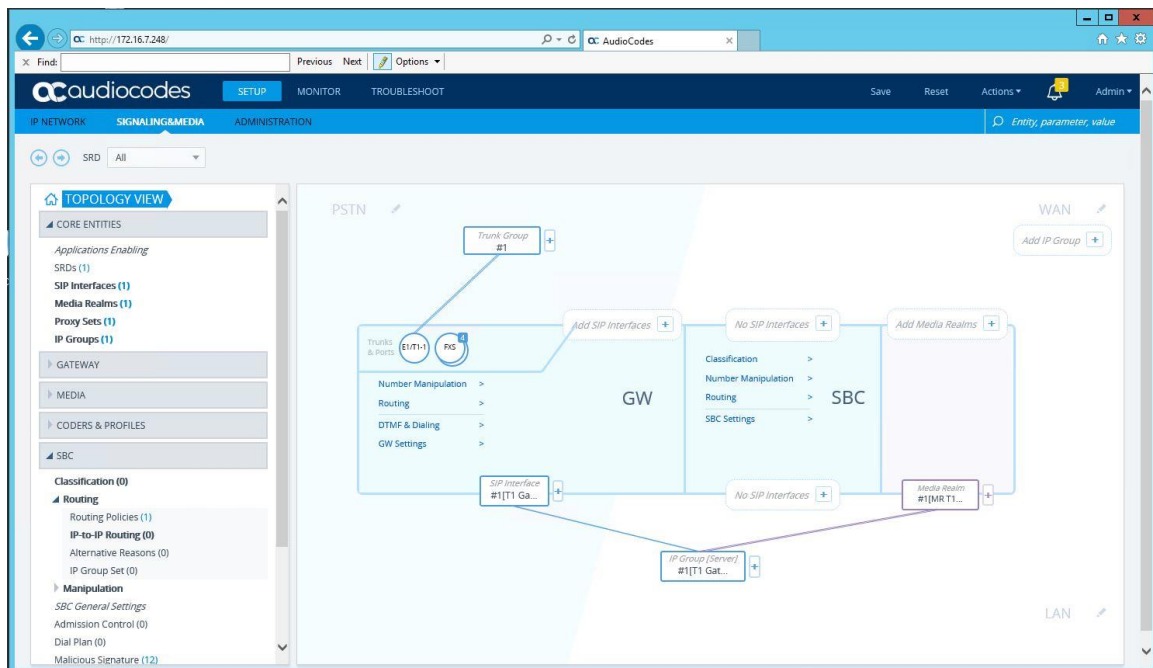


Figure 4. Example of Topology View – Working Configuration in the SETUP -> SIGNALING & MEDIA Tab
Your topology view should look similar to the above representation when properly configured.

Items of interest are the **SIP Interface**, **IP Group**(Server), and **Media Realm**. The Trunk & Ports and Trunk Group items are for the T1/E1 link to the telephone system (PBX). PSTN connections would be configured on the FXS link. Overlapping information may be included on trunk routing for MiCollab AM connections and MWI notification.

This guide provides examples of all of the screens that contain data that may deviate from the default settings provided during the initial set up of the AudioCodes Gateway. Refer to any telephone system, AudioCodes documentation, and vendor assistance whenever necessary to determine your specific integration requirements.

This example also includes the IP Network Topology as set up in the lab in this section.

NOTE These screen captures are for reference purposes only. Your actual configuration and setup will be unique.

The following screen captures found are under the **SETUP > SIGNALING & MEDIA Tab > CORE ENTITIES**.

The screenshot shows the AudioCodes web interface with the following components:

- Header:** AudioCodes logo, navigation tabs (SETUP, MONITOR, TROUBLESHOOT), and user information (Save, Reset, Actions, Admin).
- Left Sidebar:** Navigation menu with categories like IP NETWORK, SIGNALING & MEDIA, and ADMINISTRATION. Under SIGNALING & MEDIA, the 'CORE ENTITIES' section is expanded, showing options like SRDs (1), SIP Interfaces (1), Media Realms (1), Proxy Sets (1), and IP Groups (1).
- Main Content Area:**
 - SRDs (1) Table:** A table with columns: INDEX, NAME, SHARING POLICY, SBC OPERATION MODE, SBC ROUTING POLICY, MAX. NUMBER OF REGISTERED USERS, and USER SECURITY MODE. It contains one entry: SRD T1 Gateway (#1) with a 'Shared' policy and 'B2BUA' operation mode.
 - #1[SRD T1 Gateway] Configuration:** A detailed view of the selected SRD, divided into 'GENERAL' and 'REGISTRATION' sections.

GENERAL		REGISTRATION	
Name	SRD T1 Gateway	Max. Number of Regs...	-1
Sharing Policy	Shared	User Security Mode	Accept All
SBC Operation Mode	B2BUA	Enable Un-Authenticat...	Enable
SBC Routing Policy	# [Default_SBCRoutingPolicy]		
Used By Routing Server	Used		
Dial Plan	# [-]		

SRDs [SRD T1 Gateway] x

GENERAL		REGISTRATION	
Index	1	Max. Number of Registered Users	-1
Name	SRD T1 Gateway	User Security Mode	Accept All
Sharing Policy	Shared	Enable Un-Authenticated Registrations	Enable
SBC Operation Mode	B2BUA		
SBC Routing Policy	#0 [Default_SBCRoutingPolicy] View		
Used By Routing Server	Used		
Dial Plan	-- View		

Cancel [APPLY](#)

Figure 5. SRD Information and Settings

AudioCodes [SETUP](#) [MONITOR](#) [TROUBLESHOOT](#) Save Reset Actions Admin

Find: Previous Next Options AudioCodes

IP NETWORK **SIGNALING&MEDIA** ADMINISTRATION Entry, parameter, value

SRD All

TOPOLOGY VIEW

Core Entities

- Applications Enabling
- SRDs (1)
- SIP Interfaces (1)**
- Media Realms (1)
- Proxy Sets (1)
- IP Groups (1)
- GATEWAY
- MEDIA
- CODERS & PROFILES
- SBC
- Classification (0)
- Routing
 - Routing Policies (1)
 - IP-to-IP Routing (0)
 - Alternative Reasons (0)
 - IP Group Set (0)
- Manipulation
 - SBC General Settings
 - Admission Control (0)
 - Dial Plan (0)
 - Malicious Signature (12)
- SIP DEFINITIONS

SIP Interfaces (1)

[New](#) [Edit](#) [Delete](#) Page 1 of 1 Show 32 records per page

INDEX	NAME	SRD	NETWORK INTERFACE	APPLICATION TYPE	UDP PORT	TCP PORT	TLS PORT	ENCAPSULATING PROTOCOL	MEDIA REALM
1	T1 Gateway SIP Int	SRD T1 Gateway	Voice	GW	5060	5060	5061	No encapsulation	MR T1 Gateway

#1[T1 Gateway SIP Interface] # [SRD T1 Gateway] [Edit](#)

GENERAL		MEDIA	
Name	T1 Gateway SIP Interface	Media Realm	# [MR T1 Gateway] View
Topology Location	Down	Direct Media	Disable
Network Interface	# [Voice] View		
Application Type	GW		
UDP Port	5060		
TCP Port	5060		
TLS Port	5061		
Additional UDP Ports		SECURITY	
Encapsulating Protocol	No encapsulation	TLS Context Name	# [-] View
Enable TCP Keepalive	Disable	TLS Mutual Authentica...	# [-]
Used By Routing Server	Used	Message Policy	# [-] View
		User Security Mode	Not Configured
		Enable Un-Authenticat...	Not configured
		Max. Number of Regis...	-1

SIP Interfaces

[T1 Gateway SIP Interface]

SRD

#1 [SRD T1 Gateway]

GENERAL

Index

1

Name

T1 Gateway SIP Interface

Topology Location

Down

Network Interface

#0 [Voice]

View

Application Type

GW

UDP Port

5060

TCP Port

5060

TLS Port

5061

Additional UDP Ports

Encapsulating Protocol

No encapsulation

MEDIA

Media Realm

#1 [MR T1 Gateway]

View

Direct Media

Disable

SECURITY

TLS Context Name

...

View

TLS Mutual Authentication

Message Policy

...

View

User Security Mode

Not Configured

Enable Un-Authenticated Registrations

Not configured

Cancel

APPLY

SIP Interfaces

[T1 Gateway SIP Interface]

Network Interface

#0 [Voice]

View

Application Type

GW

UDP Port

5060

TCP Port

5060

TLS Port

5061

Additional UDP Ports

Encapsulating Protocol

No encapsulation

Enable TCP Keepalive

Disable

Used By Routing Server

Used

Pre-Parsing Manipulation Set

...

View

SECURITY

TLS Context Name

...

View

TLS Mutual Authentication

Message Policy

...

View

User Security Mode

Not Configured

Enable Un-Authenticated Registrations

Not configured

Max. Number of Registered Users

-1

CLASSIFICATION

Classification Failure Response Type

500

Pre-classification Manipulation Set ID

-1

Cancel

APPLY

Figure 6. SIP Interface Settings

The screenshot shows the AudioCodes Mediant800B E-SBC configuration interface. The left sidebar contains a navigation menu with categories like CORE ENTITIES, GATEWAY, MEDIA, CODERS & PROFILES, and SBC. The main area displays the 'Media Realms (1)' table and the configuration details for the first entry, #1[MRT1 Gateway].

INDEX	NAME	IPv4 INTERFACE NAME	PORT RANGE START	NUMBER OF MEDIA SESSION LEGS	PORT RANGE END	DEFAULT MEDIA REALM
1	MRT1 Gateway	Voice	7000	50	7499	No

Below the table, the configuration details for #1[MRT1 Gateway] are shown in two sections:

- GENERAL**
 - Name: MRT1 Gateway
 - Topology Location: Down
 - IPv4 Interface Name: #0 [Voice] [View](#)
 - Port Range Start: 7000
 - Number Of Media Session Legs: 50
 - Port Range End: 7499
 - Default Media Realm: No
- QUALITY OF EXPERIENCE**
 - QoE Profile: # [-] [View](#)
 - Bandwidth Profile: # [-] [View](#)

At the bottom, there are links for 'Media Realm Extension 0 items >>' and 'Remote Media Subnet 0 items >>'.

The screenshot shows the 'Media Realms' configuration form for the entry #1[MRT1 Gateway]. The form is divided into two main sections: GENERAL and QUALITY OF EXPERIENCE.

GENERAL

- Index: 1
- Name: MRT1 Gateway
- Topology Location: Down
- IPv4 Interface Name: #0 [Voice] [View](#)
- Port Range Start: 7000
- Number Of Media Session Legs: 50
- Port Range End: 7499
- Default Media Realm: No

QUALITY OF EXPERIENCE

- QoE Profile: ... [View](#)
- Bandwidth Profile: ... [View](#)

At the bottom of the form, there are 'Cancel' and 'APPLY' buttons.

Figure 7. Media Realms Information and Settings

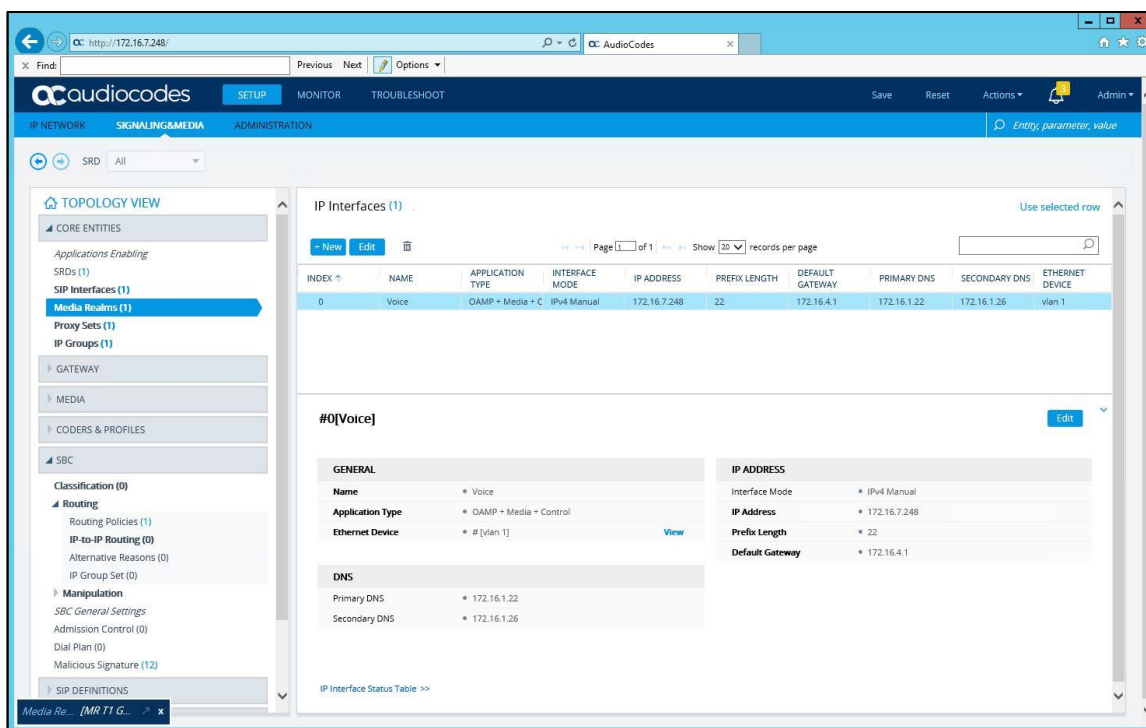
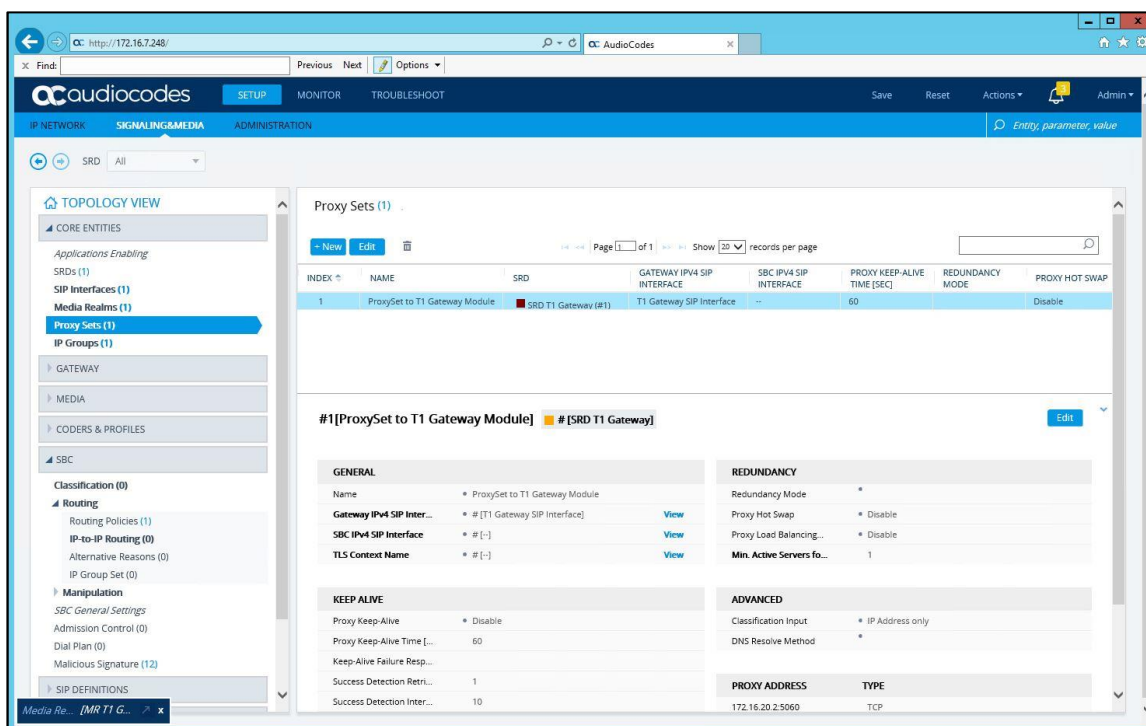


Figure 8. IP Interfaces Settings



Proxy Sets
[ProxySet to T1 Gateway Module]

SRD
#1 [SRD T1 Gateway]

GENERAL

Index
1

Name
ProxySet to T1 Gateway Module

Gateway IPv4 SIP Interface
#1 [T1 Gateway SIP Interface]
View

SBC IPv4 SIP Interface
..
View

TLS Context Name
..
View

KEEP ALIVE

Proxy Keep-Alive
Disable

Proxy Keep-Alive Time [sec]
60

REDUNDANCY

Redundancy Mode

Proxy Hot Swap
Disable

Proxy Load Balancing Method
Disable

Min. Active Servers for Load Balancing
1

ADVANCED

Classification Input
IP Address only

DNS Resolve Method

Cancel
APPLY

GENERAL

Index
1

Name
ProxySet to T1 Gateway Module

Gateway IPv4 SIP Interface
#1 [T1 Gateway SIP Interface]
View

SBC IPv4 SIP Interface
..
View

TLS Context Name
..
View

KEEP ALIVE

Proxy Keep-Alive
Disable

Proxy Keep-Alive Time [sec]
60

Keep-Alive Failure Responses

Success Detection Retries
1

Success Detection Interval
10

Failure Detection Retransmissions
-1

REDUNDANCY

Redundancy Mode

Proxy Hot Swap
Disable

Proxy Load Balancing Method
Disable

Min. Active Servers for Load Balancing
1

ADVANCED

Classification Input
IP Address only

DNS Resolve Method

Cancel
APPLY

Figure 9. Proxy Sets Settings

AudioCodes Mediant800B E-SBC Release 7.2 Series

Find: Previous Next Options AudioCodes

IP NETWORK SIGNALING & MEDIA ADMINISTRATION Save Reset Actions Admin

SRD All

TOPOLOGY VIEW

CORE ENTITIES

- Applications Enabling
- SRDs (1)
- SIP Interfaces (1)
- Media Realms (1)
- Proxy Sets (1)
- IP Groups (1)**
- GATEWAY
- MEDIA
- CODERS & PROFILES
- SBC

Classification (0)

Routing

- Routing Policies (1)
- IP-to-IP Routing (0)
- Alternative Reasons (0)
- IP Group Set (0)

Manipulation

- SBC General Settings
- Admission Control (0)
- Dial Plan (0)
- Malicious Signature (12)

SIP DEFINITIONS

Media Re... [MR T1 G...]

IP Groups (1)

New Edit Page 1 of 1 Show 20 records per page

INDEX	NAME	SRD	TYPE	SBC OPERATION MODE	PROXY SET	IP PROFILE	MEDIA REALM	SIP GROUP NAME	CLASSIFY BY PROXY SET	INBOUND MESSAGE MANIPULATION SET	OUTBOUND MESSAGE MANIPULATION SET
1	T1 Gateway IP	SRD T1 Gateway	Server	Not Configured	ProxySet to T1	T1 Gateway IP	MR T1 Gateway		Disable	-1	-1

#1 [T1 Gateway IP Group] # [SRD T1 Gateway] Edit

GENERAL

Name: T1 Gateway IP Group

Topology Location: Down

Type: Server

Proxy Set: #1 [ProxySet to T1 Gateway Module] View

IP Profile: #1 [T1 Gateway IP Profile] View

Media Realm: #1 [MR T1 Gateway] View

Contact User: 4001

SIP Group Name:

Created By Routing Server: No

Used By Routing Server: Not Used

QUALITY OF EXPERIENCE

QoE Profile: # [-] View

Bandwidth Profile: # [-] View

MESSAGE MANIPULATION

Inbound Message Manipulation Set: -1

Outbound Message Manipulation Set: -1

Message Manipulation User-Defined String 1:

Message Manipulation User-Defined String 2:

SBC REGISTRATION AND AUTHENTICATION

IP Groups [T1 Gateway IP Group]

SRD #1 [SRD T1 Gateway]

GENERAL

Index: 1

Name: T1 Gateway IP Group

Topology Location: Down

Type: Server

Proxy Set: #1 [ProxySet to T1 Gateway Module] View

IP Profile: #1 [T1 Gateway IP Profile] View

Media Realm: #1 [MR T1 Gateway] View

Contact User: 4001

SIP Group Name:

Created By Routing Server: No

QUALITY OF EXPERIENCE

QoE Profile: View

Bandwidth Profile: View

MESSAGE MANIPULATION

Inbound Message Manipulation Set: -1

Outbound Message Manipulation Set: -1

Message Manipulation User-Defined String 1:

Message Manipulation User-Defined String 2:

SBC REGISTRATION AND AUTHENTICATION

Cancel APPLY

IP Groups
[T1 Gateway IP Group]

SIP Group Name	<input type="text"/>		
Created By Routing Server	No		
Used By Routing Server	Not Used		
Proxy Set Connectivity	NA		

SBC GENERAL

Classify By Proxy Set	* Disable	
SBC Operation Mode	Not Configured	
SBC Client Forking Mode	Sequential	

ADVANCED

Local Host Name	<input type="text"/>	
UII Format	Disable	
Always Use Src Address	No	

SBC REGISTRATION AND AUTHENTICATION

Max. Number of Registered Users	-1
Registration Mode	User Initiates Registration
User Stickiness	Disable
User UDP Port Assignment	Disable
Authentication Mode	User Authenticates
Authentication Method List	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>

GATEWAY

SIP Re-Routing Mode	<input type="text"/>
---------------------	----------------------

Cancel **APPLY**

IP Groups
[T1 Gateway IP Group]

ADVANCED

Local Host Name	<input type="text"/>	
UII Format	Disable	
Always Use Src Address	No	

SBC ADVANCED

Source URI Input	<input type="text"/>
Destination URI Input	<input type="text"/>
SIP Connect	No
SBC PSAP Mode	Disable
Route Using Request URI Port	Disable
DTLS Context	#0 [default] View
Keep Original Call-ID	No
Dial Plan	-- View

GATEWAY

SIP Re-Routing Mode	<input type="text"/>
Always Use Route Table	No

GW GROUP STATUS

GW Group Registered IP Address	<input type="text"/>
GW Group Registered Status	Not Registered

Cancel **APPLY**

IP Groups
[T1 Gateway IP Group]

UII Format	Disable	SIP Re-Routing Mode	<input type="text"/>
Always Use Src Address	No	Always Use Route Table	No

SBC ADVANCED

Source URI Input	<input type="text"/>
Destination URI Input	<input type="text"/>
SIP Connect	No
SBC PSAP Mode	Disable
Route Using Request URI Port	Disable
DTLS Context	#0 [default] View
Keep Original Call-ID	No
Dial Plan	-- View
Call Setup Rules Set ID	-1
Tags	<input type="text"/>

GW GROUP STATUS

GW Group Registered IP Address	<input type="text"/>
GW Group Registered Status	Not Registered

Cancel **APPLY**

Figure 10. IP Groups Settings

The following screen captures are found under the **SETUP > SIGNALING & MEDIA Tab > GATEWAY > Trunks**.

AudioCodes Mediant800B E-SBC Configuration Interface - Trunk Settings

GENERAL

Module ID	1
Trunk ID	1
Trunk Configuration State	Active
Protocol Type	T1 QSIG

TRUNK CONFIGURATION

Clock Master	Recovered
Auto Clock Trunk Priority	0
Line Code	B8ZS
Line Build Out Loss	0 dB
Trace Level	No Trace
Line Build Out Overwrite	OFF
Framing Method	T1 FRAMING ESF CRC6

ADVANCED SETTINGS

PSTN Alert Timeout	-1
Transfer Mode	Disable
Local ISDN Ringback Tone Source	PBX
Set PI in Rx Disconnect Message	Not Configured
ISDN Transfer Capabilities	Not Configured
Progress Indicator to ISDN	Not Configured
Select Receiving of Overlap Dialing	None
B-channel Negotiation	Not Configured
Out-Of-Service Behavior	Not Configured
Remove Calling Name	Use Global Parameter
Play Ringback Tone to Trunk	Not Configured
Call Rerouting Mode	None
ISDN Duplicate Q931 BuffMode	0
Trunk Name	

Buttons: Submit, Stop Trunk, Deactivate Trunk, Create Loopback

AudioCodes Mediant800B E-SBC Configuration Interface - ISDN CONFIGURATION

ISDN CONFIGURATION

ISDN Termination Side	User side
Q931 Layer Response Behavior	0x40000000
Outgoing Calls Behavior	0x400
Incoming Calls Behavior	0x11000
General Call Control Behavior	0x0
ISDN NS Behaviour 2	0x0
NFAS Group Number	0
IUA Interface ID	-1
NFAS Interface ID	255
D-channel Configuration	PRIMARY

ADVANCED SETTINGS

Select Receiving of Overlap Dialing	None
B-channel Negotiation	Not Configured
Out-Of-Service Behavior	Not Configured
Remove Calling Name	Use Global Parameter
Play Ringback Tone to Trunk	Not Configured
Call Rerouting Mode	None
ISDN Duplicate Q931 BuffMode	0
Trunk Name	

Buttons: Submit, Stop Trunk, Deactivate Trunk, Create Loopback

Figure 11. T1/E1 Trunk Settings and Status

The screenshot shows the AudioCodes web interface with the 'Trunk Group Table' configuration page. The left sidebar contains a 'TOPOLOGY VIEW' menu with options like 'CORE ENTITIES', 'GATEWAY', 'Trunks & Groups', 'Trunks', 'Trunk Groups', 'Trunk Group Settings (1)', 'TDM Bus Settings', 'Routing', 'Routing Settings', 'Tel -> IP Routing (2)', 'IP->Tel Routing (1)', 'Forward On Busy Trunk Destination (0)', 'Routing Policies (1)', 'Charge Codes (0)', 'Alternative Routing Reasons', 'Manipulation', 'DTMF & Supplementary', 'Analog Gateway', 'Digital Gateway', 'Gateway General Settings', and 'Gateway Advanced Settings'. The main area displays a table with columns: Group Index, Module, From Trunk, To Trunk, Channels, Phone Number, Trunk Group ID, and Tel Profile Name. The table contains 12 rows, all with 'None' in the Tel Profile Name column. Below the table are buttons for 'Register' and 'Un-Register'. At the bottom right, there are 'Cancel' and 'APPLY' buttons.

Group Index	Module	From Trunk	To Trunk	Channels	Phone Number	Trunk Group ID	Tel Profile Name
1	Module 1 PRI	1	1	1-24	4900	1	None
2							None
3							None
4							None
5							None
6							None
7							None
8							None
9							None
10							None
11							None
12							None

Figure 12. Trunk Groups

The screenshot shows the AudioCodes web interface with the 'Trunk Group Settings (1)' configuration page. The left sidebar is identical to the previous figure. The main area displays a table with columns: INDEX, NAME, TRUNK GROUP ID, CHANNEL SELECT MODE, REGISTRATION MODE, SERVING IP GROUP, ADMIN STATE, and STATUS. The table contains one row with INDEX 0, NAME TEST, TRUNK GROUP ID 1, CHANNEL SELECT MODE Cyclic Descending, REGISTRATION MODE Don't Register, SERVING IP GROUP --, ADMIN STATE Unlocked, and STATUS In Service. Below the table, there is a section for '#0[TEST]' with two sub-sections: 'GENERAL' and 'SIP CONFIGURATION'. The 'GENERAL' section includes fields for Name (TEST), Trunk Group ID (1), Channel Select Mode (Cyclic Descending), Registration Mode (Don't Register), and Used By Routing Server (Used). The 'SIP CONFIGURATION' section includes fields for Gateway Name, Contact User, Serving IP Group (# [-]), and MWI Interrogation Type (None). At the bottom right, there is a 'STATUS' section with fields for Admin State (Unlocked) and Status (In Service). There are 'New', 'Edit', 'Insert', and 'Action' buttons at the top of the table, and an 'Edit' button next to the '#0[TEST]' section.

INDEX	NAME	TRUNK GROUP ID	CHANNEL SELECT MODE	REGISTRATION MODE	SERVING IP GROUP	ADMIN STATE	STATUS
0	TEST	1	Cyclic Descending	Don't Register	--	Unlocked	In Service

Trunk Group Settings [TEST]

GENERAL		SIP CONFIGURATION	
Index	0	Gateway Name	
Name	TEST	Contact User	
Trunk Group ID	1	Serving IP Group	.. View
Channel Select Mode	Cyclic Descending	MWI Interrogation Type	None
Registration Mode	Don't Register		
Used By Routing Server	Used		

Cancel APPLY

Figure 13. Trunk Group Settings

audiocodes SETUP MONITOR TROUBLESHOOT

IP NETWORK SIGNALING MEDIA ADMINISTRATION

Find: Previous Next Options

SRD All

TOPOLOGY VIEW

- CORE ENTITIES
- GATEWAY
 - Trunks & Groups
 - CAS State Machines
 - Trunks
 - Trunk Groups
 - Trunk Group Settings (1)
 - TDM Bus Settings (1)
 - Routing
 - Routing Settings
 - Tel -> IP Routing (2)
 - IP -> Tel Routing (1)
 - Forward On Busy Trunk Destination (0)
 - Routing Policies (1)
 - Charge Codes (0)
 - Alternative Routing Reasons
 - Manipulation
 - DTMF & Supplementary
 - Analog Gateway
 - Digital Gateway
 - Gateway General Settings
 - Gateway Advanced Settings
- MEDIA
- CODERS & PROFILES

TDM Bus Settings

GENERAL	
TDM Bus Clock Source	Network
TDM Bus PSTN Auto FallBack Clock	Disable
TDM Bus PSTN Auto Clock Reverting	Disable
TDM Bus Local Reference	1

DIGITAL PCM	
PCM Law Select	MuLaw
Idle PCM Pattern	255
Idle ABCD Pattern	0x0F

Cancel APPLY

Figure 14. TDM Bus Settings

Browser: http://172.16.7.248/ | AudioCodes

Navigation: SETUP | MONITOR | TROUBLESHOOT | Save | Reset | Actions | Admin

Menu: IP NETWORK | SIGNALING & MEDIA | ADMINISTRATION | Entry, parameter, value

SRD: All

TOPOLOGY VIEW

- CORE ENTITIES
 - Applications Enabling
 - SRDs (1)
 - SIP Interfaces (1)
 - Media Realms (1)
 - Proxy Sets (1)
 - IP Groups (1)
- GATEWAY
 - Trunks & Groups
 - TDM Bus Settings
 - Routing
 - Routing Settings
 - Tel -> IP Routing (2)**
 - IP -> Tel Routing (1)
 - Forward On Busy Trunk Destination (0)
 - Routing Policies (1)
 - Charge Codes (0)
 - Alternative Routing Reasons
 - Manipulation
 - DTMF & Supplementary
 - Analog Gateway
 - Digital Gateway
 - Gateway General Settings
 - Gateway Advanced Settings
 - MEDIA

Tel-to-IP Routing (2)

Page 1 of 1 | Show 20 records per page

INDEX	NAME	SOURCE TRUNK GROUP ID	SOURCE PHONE PREFIX	DESTINATION PHONE PREFIX	DESTINATION IP GROUP	SIP INTERFACE	DESTINATION IP ADDRESS	FORKING GROUP	CONNECTIVITY STATUS
0	From Avaya to CX	-1	*	4900	T1 Gateway IP Gro	T1 Gateway SIP Int		-1	Not Available
1	Transfers	-1	*	*	T1 Gateway IP Gro	T1 Gateway SIP Int		-1	Not Available

#0[From Avaya to CX]

GENERAL

Name: From Avaya to CX

Connectivity Status: Not Available

MATCH

Source Trunk Group ID: -1

Source Phone Prefix: *

Destination Phone Prefix: 4900

ACTION

Destination IP Group: #1 [T1 Gateway IP Group] [View](#)

SIP Interface: #1 [T1 Gateway SIP Interface] [View](#)

Destination IP Address:

IP Profile: #2 [CX IP Group] [View](#)

Destination Port: 0

Transport Type: UDP

ADVANCED

Call Setup Rules Set ID: -1

Forking Group: -1

Cost Group: #[-1] [View](#)

Tel-to-IP Routing

[From Avaya to CX]

GENERAL

Index: 0

Name: * From Avaya to CX

Connectivity Status: Not Available

MATCH

Source Trunk Group ID: -1

Source Phone Prefix: *

Destination Phone Prefix: * 4900

ACTION

Destination IP Group: * #1 [T1 Gateway IP Group] [View](#)

SIP Interface: * #1 [T1 Gateway SIP Interface] [View](#)

Destination IP Address:

IP Profile: * #2 [CX IP Group] [View](#)

Destination Port: 0

Transport Type: * UDP

ADVANCED

Call Setup Rules Set ID: -1

Forking Group: -1

Cost Group: ... [View](#)

Cancel [APPLY](#)

Tel-to-IP Routing [Transfers] - x

GENERAL

Index: 1

Name: Transfers

Connectivity Status: Not Available

MATCH

Source Trunk Group ID: -1

Source Phone Prefix: *

Destination Phone Prefix: *

ACTION

Destination IP Group: #1 [T1 Gateway IP Group] View

SIP Interface: #1 [T1 Gateway SIP Interface] View

Destination IP Address:

IP Profile: View

Destination Port: 0

Transport Type:

ADVANCED

Call Setup Rules Set ID: -1

Forking Group: -1

Cost Group: View

Cancel APPLY

Figure 15. Tel > IP Routing Settings

OC: http://172.16.7.248/ AudioCodes

Find: Previous Next Options

Save Reset Actions Admin

IP NETWORK SIGNALING&MEDIA ADMINISTRATION

SRD All

TOPOLOGY VIEW

CORE ENTITIES

- Applications Enabling
- SRDs (1)
- SIP Interfaces (1)
- Media Realms (1)
- Proxy Sets (1)
- IP Groups (1)

GATEWAY

- Trunks & Groups
- TDM Bus Settings
- Routing
 - Routing Settings
 - Tel->IP Routing (2)
 - IP->Tel Routing (1)**
 - Forward On Busy Trunk Destination (0)
 - Routing Policies (1)
 - Charge Codes (0)
 - Alternative Routing Reasons
- Manipulation
- DTMF & Supplementary
- Analog Gateway
- Digital Gateway
- Gateway General Settings
- Gateway Advanced Settings

IP-to-Tel Routing (1)

New Edit Insert Page 1 of 1 Show 20 records per page

INDEX	NAME	SOURCE IP GROUP	SOURCE SIP INTERFACE	SOURCE IP ADDRESS	SOURCE PHONE PREFIX	DESTINATION PHONE PREFIX	TRUNK GROUP ID
0	test	-	Any	*	*	*	1

#0[test] Edit

GENERAL

Name: test

MATCH

Source SIP Interface: # [Any] View

Source IP Address: *

Source Phone Prefix: *

Destination Phone Pre...: *

Destination Host Prefix: *

Source Host Prefix: *

ACTION

Destination Type: Trunk Group

Trunk Group ID: 1

Source IP Group: # [-] View

IP Profile: # [-] View

Trunk ID: -1

Call Setup Rules Set ID: -1

IP-to-Tel Routing [test]

GENERAL		ACTION	
Index	0	Destination Type	Trunk Group
Name	* test	Trunk Group ID	* 1
		Source IP Group	... View
		IP Profile	... View
		Trunk ID	-1
		Call Setup Rules Set ID	-1

MATCH	
Source SIP Interface	Any View
Source IP Address	* *
Source Phone Prefix	* *
Destination Phone Prefix	* *
Destination Host Prefix	* *
Source Host Prefix	* *

Cancel APPLY

Figure 16. IP > Tel Routing Settings

AudioCodes [http://172.16.7.248/] AudioCodes

Find: Previous Next Options

IP NETWORK SIGNALING & MEDIA ADMINISTRATION Save Reset Actions Admin

SRD All

TOPOLOGY VIEW

- CORE ENTITIES
 - Applications Enabling
 - SRDs (1)
 - SIP Interfaces (1)
 - Media Realms (1)
 - Proxy Sets (1)
 - IP Groups (1)
- GATEWAY
 - Trunks & Groups
 - TDM Bus Settings
 - Routing
 - Routing Settings
 - Tel -> IP Routing (2)
 - IP -> Tel Routing (1)
 - Forward On Busy Trunk Destination (0)
 - Routing Policies (1)
 - Charge Codes (0)
 - Alternative Routing Reasons
 - Manipulation
 - DTMF & Supplementary
 - Analog Gateway
 - Digital Gateway
 - Gateway General Settings
 - Gateway Advanced Settings
- MEDIA

Routing settings

GENERAL		ALTERNATIVE ROUTE	
Tel To IP Routing Mode	Route calls before manipula	Enable Alt Routing Tel to IP	Disable
IP-to-Tel Routing Mode	Route calls before manipula	Alt Routing Tel to IP Mode	Both
Source IP Address Input	Not Configure	Alt Routing Tel to IP Connectivity Method	SIP OPTIONS
Use Tgrp information	Disable	Alt Routing Tel to IP Keep Alive Time	60
3xx Use Alt Route Reasons	No	Alternative Routing Tone Duration [ms]	0
Tel-to-IP Call Forking Mode	Disable	Redundant Routing Mode	Routing Table
Forking Delay Time For Invite (s)	0	SIP ReRouting Mode	Standard Mode
IP-to-Tel Remove Routing Table Prefix	Disable	Max Allowed Packet Loss for Alt Routing [%]	20
Gateway Routing Server	Disable	Max Allowed Delay for Alt Routing [msec]	250

Cancel APPLY

Figure 17. Routing Settings

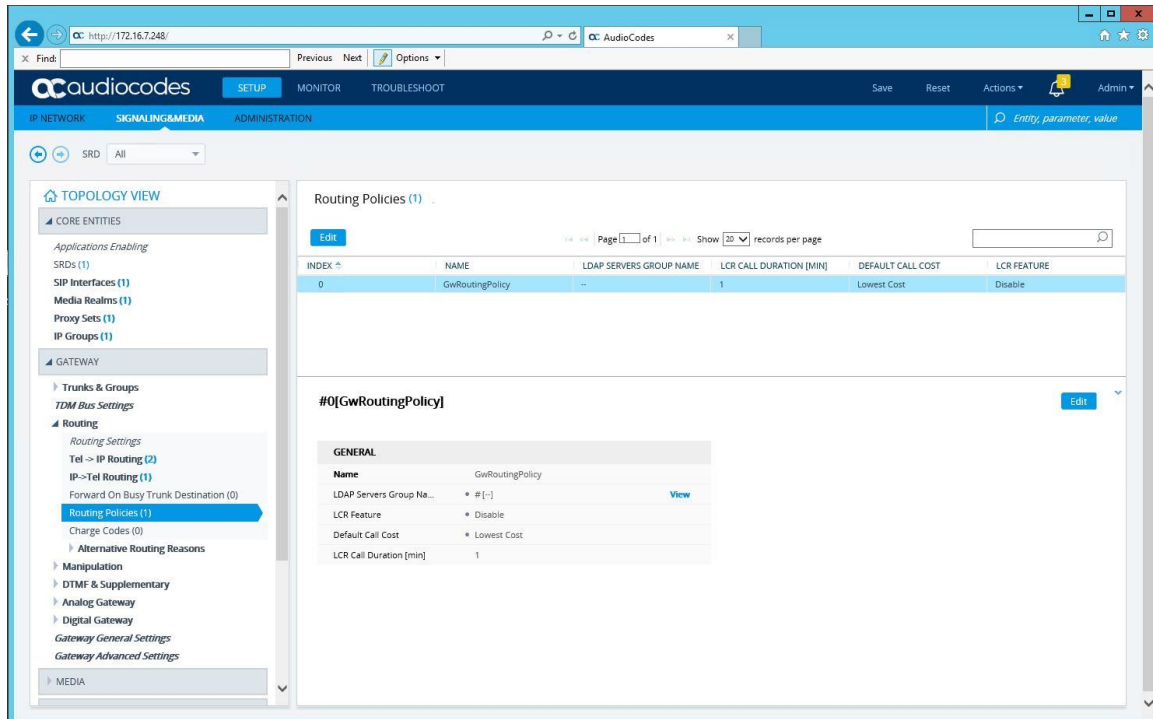


Figure 18. Routing Policies

The following screen captures are found under the **SETUP > SIGNALING & MEDIA Tab > CODERS & PROFILES**.

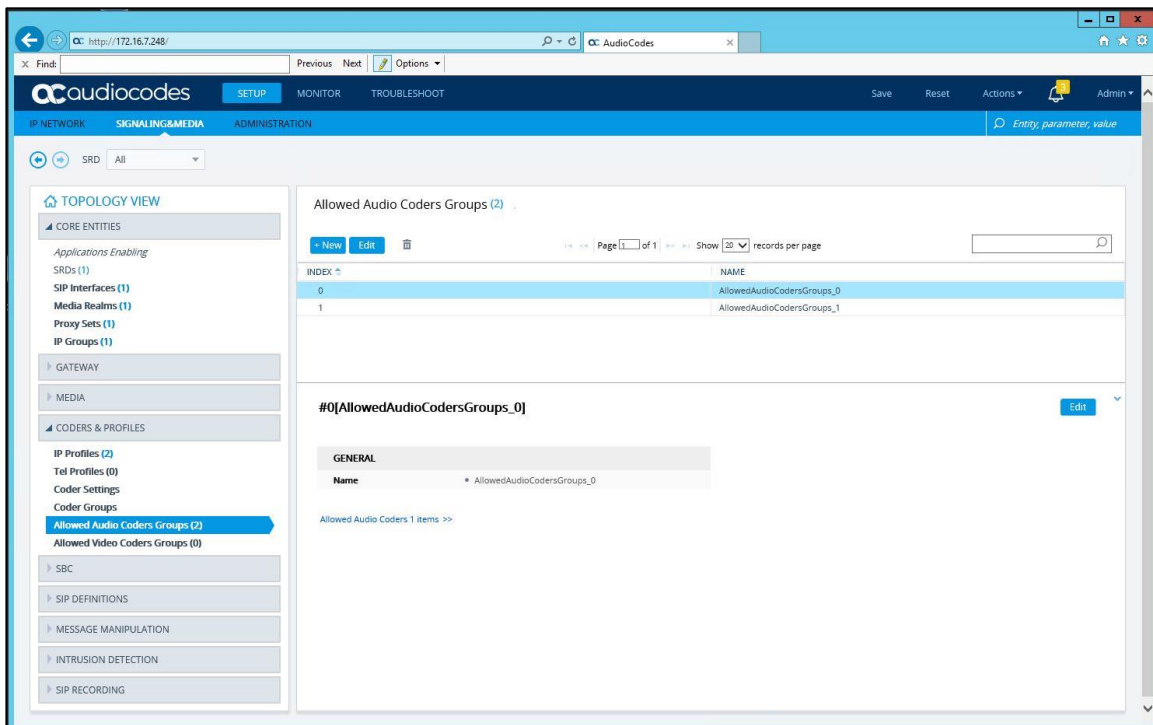


Figure 19. Allowed Audio Coders Groups

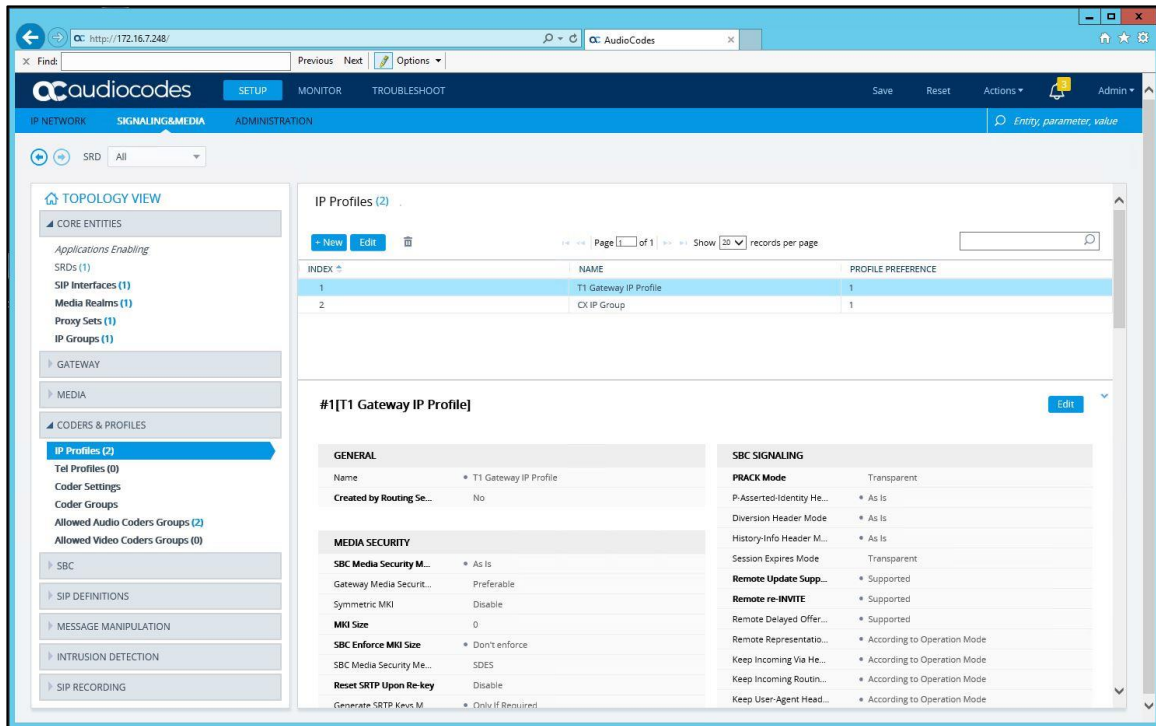
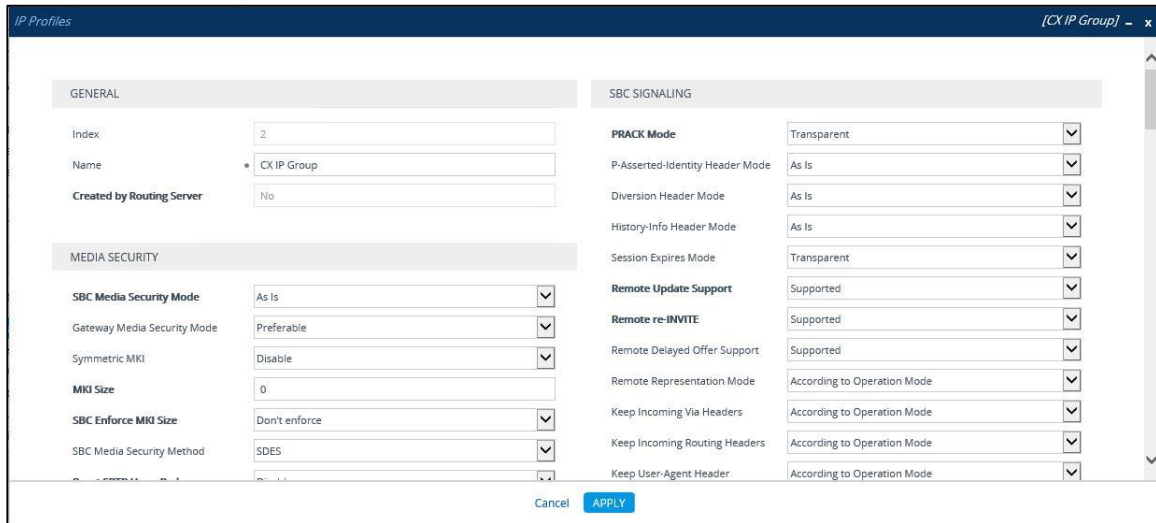


Figure 20. IP Profiles



IP Profiles [CX IP Group] - x

SBC Media Security Method	SDES	Keep Incoming Routing Headers	According to Operation Mode
Reset SRTP Upon Re-key	Disable	Keep User-Agent Header	According to Operation Mode
Generate SRTP Keys Mode	Only If Required	Handle X-Detect	No
SBC Remove Crypto Lifetime in SDP	No	ISUP Body Handling	Transparent
		ISUP Variant	Rt92
		Max Call Duration [min]	0

SBC EARLY MEDIA

Remote Early Media	Supported
Remote Multiple 18x	Supported
Remote Early Media Response Type	Transparent
Remote Multiple Early Dialogs	According to Operation Mode
Remote Multiple Answers Mode	Disable
Remote Early Media RTP Detection Mode	By Signaling
Remote RFC 3960 Support	Not Supported
Remote Can Play Ringback	Yes

SBC REGISTRATION

User Registration Time	0
NAT UDP Registration Time	-1
NAT TCP Registration Time	-1

SBC FORWARD AND TRANSFER

Remote REFER Mode	Regular
-------------------	---------

Cancel APPLY

IP Profiles [CX IP Group] - x

Remote RFC 3960 Support	Not Supported
Remote Can Play Ringback	Yes
Generate RTP	None

SBC MEDIA

Mediation Mode	RTP Mediation
Extension Coders Group	--
Allowed Audio Coders	* #1 [AllowedAudioCodersGroups_1] View
Allowed Coders Mode	Restriction
Allowed Video Coders	-- View
Allowed Media Types	
Direct Media Tag	
RFC 2833 Mode	As Is
RFC 2833 DTMF Payload Type	0

SBC FORWARD AND TRANSFER

Remote REFER Mode	Regular
Remote Replaces Mode	Standard
Play RBT To Transferee	No
Remote 3xx Mode	Transparent

SBC HOLD

Remote Hold Format	Transparent
Reliable Held Tone Source	Yes
Play Held Tone	No

SBC FAX

Fax Coders Group	--
Fax Mode	As Is

Cancel APPLY

IP Profiles [CX IP Group] - x

RFC 2833 Mode	As Is
RFC 2833 DTMF Payload Type	0
Alternative DTMF Method	As Is
Send Multiple DTMF Methods	Disable
Adapt RFC2833 BW to Voice coder BW	Disabled
SDP Ptime Answer	Remote Answer
Preferred PTime	0
Use Silence Suppression	Transparent
RTP Redundancy Mode	As Is
RTCP Mode	Transparent
Jitter Compensation	Disable
ICE Mode	Disable
SDP Handle RTCP	Don't Care
RTCP Mux	Not Supported

Fax Coders Group	--
Fax Mode	As Is
Fax Offer Mode	All coders
Fax Answer Mode	Single coder
Remote Renegotiate on Fax Detection	Transparent
Fax Rerouting Mode	Disable

MEDIA

Broken Connection Mode	Disconnect
Media IP Version Preference	Only IPv4
RTP Redundancy Depth	0

GATEWAY

Fax Mode	Disable
----------	---------

Cancel APPLY

IP Profiles [CX IP Group] - x

SDP Handle RTP	Don't Care
RTCP Mux	Not Supported
RTCP Feedback	Feedback Off
Voice Quality Enhancement	Disable
Max Opus Bandwidth	0

QUALITY OF SERVICE

RTP IP DiffServ	46
Signaling DiffServ	40

JITTER BUFFER

Dynamic Jitter Buffer Minimum Delay [msec]	10
Dynamic Jitter Buffer Optimization Factor	10
Jitter Buffer Max Delay [msec]	300

GATEWAY

Early Media	Disable
Early 183	Disable
Early Answer Timeout [sec]	0
Profile Preference	1
Coders Group	#1 [AudioCodersGroups_1]
Play RB Tone to IP	Disable
Progress Indicator to IP	
Hold	Enable
Add IE In Setup	
QSIG Tunneling	Disable
Copy Destination Number to Redirect Number	Disable
Number of Calls Limit	-1

Cancel **APPLY**

IP Profiles [CX IP Group] - x

VOICE

Echo Canceler	Line
Input Gain (-32 to 31 dB)	0
Voice Volume (-32 to 31 dB)	0

GATEWAY DTMF

Is DTMF Used	Disable
First Tx DTMF Option	RFC 2833
Second Tx DTMF Option	
Rx DTMF Option	Supported

GATEWAY FAX AND MODEM

Fax Signaling Method	T.38 Relay
CNG Detector Mode	Disable
Vxx Modem Transport Type	Disable
NSE Mode	Disable

ANSWER MACHINE DETECTION

Cancel **APPLY**

IP Profiles [CX IP Group] - x

CNG Detector Mode	Disable
Vxx Modem Transport Type	Disable
NSE Mode	Disable

ANSWER MACHINE DETECTION

AMD Mode	Don't Disconnect
AMD Sensitivity Parameter Suite	0
AMD Sensitivity Level	8
AMD Max Greeting Time	300
AMD Max Post Silence Greeting Time	400

LOCAL TONES

Local RingBack Tone Index	-1
Local Held Tone Index	-1

Cancel **APPLY**

Figure 21. MiCollab AM IP Group Settings

IP Profiles
[T1 Gateway IP Profile]

GENERAL		SBC SIGNALING	
Index	1	PRACK Mode	Transparent
Name	T1 Gateway IP Profile	P-Asserted-Identity Header Mode	As Is
Created by Routing Server	No	Diversion Header Mode	As Is
		History-Info Header Mode	As Is
		Session Expires Mode	Transparent
		Remote Update Support	Supported
		Remote re-INVITE	Supported
		Remote Delayed Offer Support	Supported
		Remote Representation Mode	According to Operation Mode
		Keep Incoming Via Headers	According to Operation Mode
		Keep Incoming Routing Headers	According to Operation Mode
		Keep User-Agent Header	According to Operation Mode

MEDIA SECURITY	
SBC Media Security Mode	As Is
Gateway Media Security Mode	Preferable
Symmetric MKI	Disable
MKI Size	0
SBC Enforce MKI Size	Don't enforce
SBC Media Security Method	SDES

Cancel APPLY

IP Profiles
[T1 Gateway IP Profile]

SBC Media Security Method	SDES	Keep Incoming Routing Headers	According to Operation Mode
Reset SRTP Upon Re-key	Disable	Keep User-Agent Header	According to Operation Mode
Generate SRTP Keys Mode	Only If Required	Handle X-Detect	No
SBC Remove Crypto Lifetime in SDP	No	ISUP Body Handling	Transparent
		ISUP Variant	Itu92
		Max Call Duration [min]	0

SBC EARLY MEDIA		SBC REGISTRATION	
Remote Early Media	Supported	User Registration Time	0
Remote Multiple 18x	Supported	NAT UDP Registration Time	-1
Remote Early Media Response Type	Transparent	NAT TCP Registration Time	-1
Remote Multiple Early Dialogs	According to Operation Mode		
Remote Multiple Answers Mode	Disable		
Remote Early Media RTP Detection Mode	By Signaling		
Remote RFC 3960 Support	Not Supported		
Remote Can Play Ringback	Yes		

SBC FORWARD AND TRANSFER	
Remote REFER Mode	Regular

Cancel APPLY

IP Profiles
[T1 Gateway IP Profile]

Remote RFC 3960 Support	Not Supported		
Remote Can Play Ringback	Yes		
Generate RTP	None		

SBC MEDIA		SBC FORWARD AND TRANSFER	
Mediation Mode	RTP Mediation	Remote REFER Mode	Regular
Extension Coders Group	--	Remote Replaces Mode	Standard
Allowed Audio Coders	-- View	Play RBT To Transferee	No
Allowed Coders Mode	Restriction	Remote 3xx Mode	Transparent
Allowed Video Coders	-- View		
Allowed Media Types			
Direct Media Tag			
RFC 2833 Mode	As Is		
RFC 2833 DTMF Payload Type	0		

SBC HOLD	
Remote Hold Format	Transparent
Reliable Held Tone Source	Yes
Play Held Tone	No

SBC FAX	
Fax Coders Group	--
Fax Mode	As Is

Cancel APPLY

IP Profiles
[T1 Gateway IP Profile]

Allowed Media Types		SBC FAX	
Direct Media Tag		Fax Coders Group	..
RFC 2833 Mode	As Is	Fax Mode	As Is
RFC 2833 DTMF Payload Type	0	Fax Offer Mode	All coders
Alternative DTMF Method	As Is	Fax Answer Mode	Single coder
Send Multiple DTMF Methods	Disable	Remote Renegotiate on Fax Detection	Transparent
Adapt RFC2833 BW to Voice coder BW	Disabled	Fax Rerouting Mode	Disable
SDP Ptime Answer	Remote Answer	MEDIA	
Preferred PTime	0	Broken Connection Mode	Disconnect
Use Silence Suppression	Transparent	Media IP Version Preference	Only IPv4
RTP Redundancy Mode	As Is	RTP Redundancy Depth	0
RTCP Mode	Transparent		
Jitter Compensation	Disable		
ICE Mode	Disable		

Cancel APPLY

IP Profiles
[T1 Gateway IP Profile]

RTCP Mode	Transparent	Broken Connection Mode	Disconnect
Jitter Compensation	Disable	Media IP Version Preference	Only IPv4
ICE Mode	Disable	RTP Redundancy Depth	0
SDP Handle RTCP	Don't Care	GATEWAY	
RTCP Mux	Not Supported	Early Media	Disable
RTCP Feedback	Feedback Off	Early 183	Disable
Voice Quality Enhancement	Disable	Early Answer Timeout [sec]	0
Max Opus Bandwidth	0	Profile Preference	1
QUALITY OF SERVICE		Coders Group	* #1 [AudioCodersGroups_1]
RTP IP DiffServ	46	Play RB Tone to IP	Disable
Signaling DiffServ	* 40	Progress Indicator to IP	
JITTER BUFFER		Hold	Enable
		Add IE In Setup	

Cancel APPLY

IP Profiles
[T1 Gateway IP Profile]

JITTER BUFFER		Hold	Disable
Dynamic Jitter Buffer Minimum Delay [msec]	10	Add IE In Setup	
Dynamic Jitter Buffer Optimization Factor	10	QSIG Tunneling	Disable
Jitter Buffer Max Delay [msec]	300	Copy Destination Number to Redirect Number	Disable
VOICE		Number of Calls Limit	-1
Echo Canceler	Line	GATEWAY DTMF	
Input Gain (-32 to 31 dB)	0	Is DTMF Used	Disable
Voice Volume (-32 to 31 dB)	0	First Tx DTMF Option	RFC 2833
		Second Tx DTMF Option	
		Rx DTMF Option	Supported
		GATEWAY FAX AND MODEM	
		Fax Signaling Method	T.38 Relay

Cancel APPLY

IP Profiles

[T1 Gateway IP Profile]

GATEWAY FAX AND MODEM

Fax Signaling Method

T.38 Relay

CNG Detector Mode

Disable

Vxx Modem Transport Type

Disable

NSE Mode

Disable

ANSWER MACHINE DETECTION

AMD Mode

Don't Disconnect

AMD Sensitivity Parameter Suite

0

AMD Sensitivity Level

8

AMD Max Greeting Time

300

AMD Max Post Silence Greeting Time

400

LOCAL TONES

Local RingBack Tone Index

-1

Local Held Tone Index

-1

Cancel

APPLY

IP Profiles

[T1 Gateway IP Profile]

CNG Detector Mode

Disable

Vxx Modem Transport Type

Disable

NSE Mode

Disable

ANSWER MACHINE DETECTION

AMD Mode

Don't Disconnect

AMD Sensitivity Parameter Suite

0

AMD Sensitivity Level

8

AMD Max Greeting Time

300

AMD Max Post Silence Greeting Time

400

LOCAL TONES

Local RingBack Tone Index

-1

Local Held Tone Index

-1

Cancel

APPLY

Figure 22. T1 Gateway IP Profile Settings

The following screen captures are found under the **SETUP > SIGNALING & MEDIA** Tab > **SBC**.

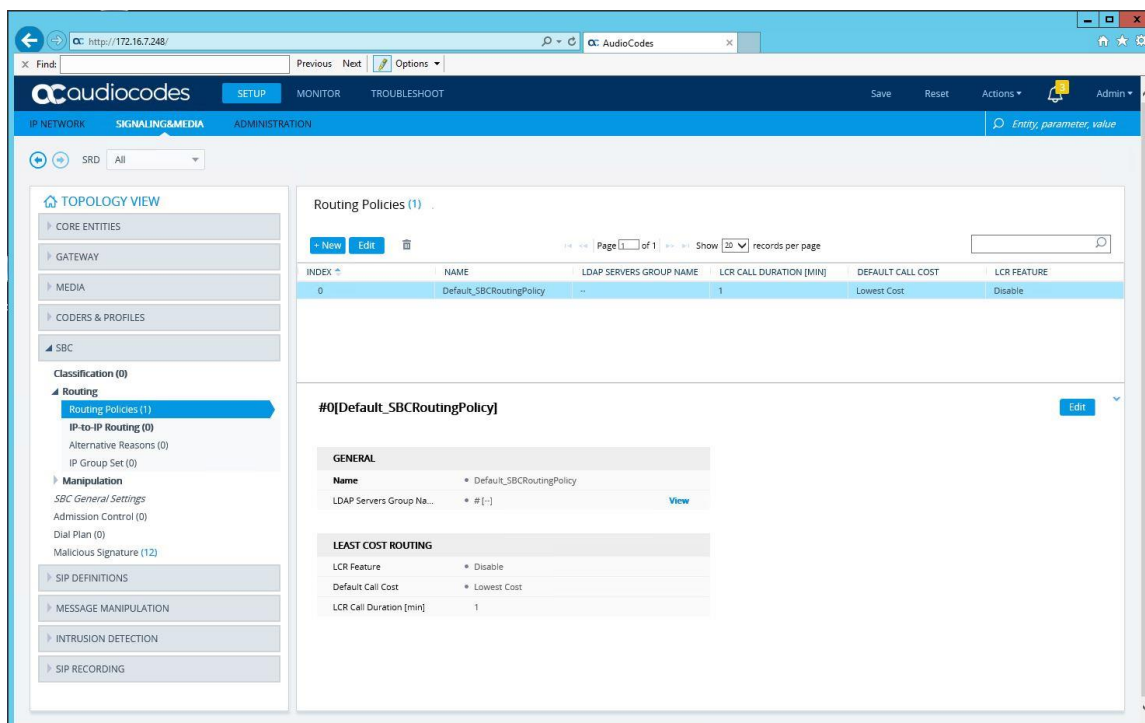


Figure 23 Routing Policies Settings

The following screen captures are found under the **SETUP > IP NETWORK** Tab.

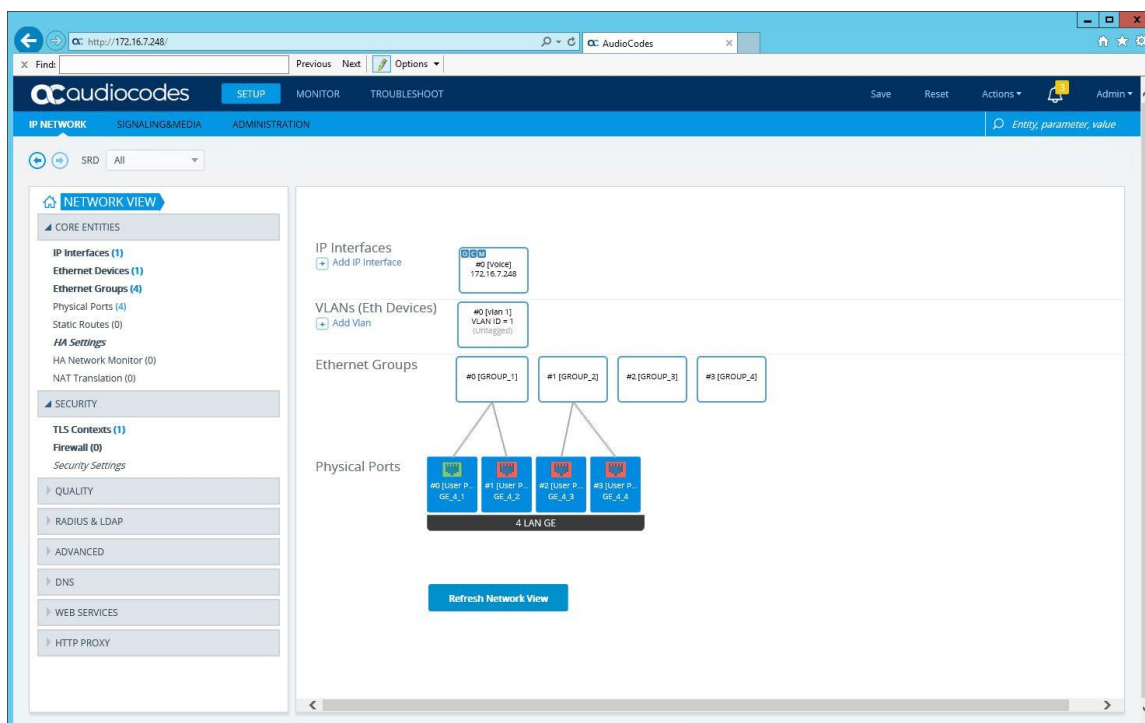


Figure 24 Topology View

The screenshot shows the AudioCodes Mediant800B E-SBC configuration interface. The left sidebar contains a 'NETWORK VIEW' section with a tree structure including 'CORE ENTITIES', 'IP Interfaces (1)', 'Ethernet Devices (1)', 'Ethernet Groups (4)', 'Physical Ports (4)', 'Static Routes (0)', 'HA Settings', 'HA Network Monitor (0)', 'NAT Translation (0)', 'SECURITY', 'TLS Contexts (1)', 'Firewall (0)', 'Security Settings', 'QUALITY', 'RADIUS & LDAP', 'ADVANCED', 'DNS', 'WEB SERVICES', and 'HTTP PROXY'. The main content area is titled 'IP Interfaces (1)' and displays a table with one entry. Below the table, there is a configuration form for the selected interface, showing fields for Name, Application Type, Ethernet Device, DNS, and IP Address.

INDEX	NAME	APPLICATION TYPE	INTERFACE MODE	IP ADDRESS	PREFIX LENGTH	DEFAULT GATEWAY	PRIMARY DNS	SECONDARY DNS	ETHERNET DEVICE
0	Voice	OAMP + Media + Control	IPv4 Manual	172.16.7.248	22	172.16.4.1	172.16.1.22	172.16.1.26	vlan 1

#0[Voice]

GENERAL

Name: Voice

Application Type: OAMP + Media + Control

Ethernet Device: # [vlan 1] [View](#)

DNS

Primary DNS: 172.16.1.22

Secondary DNS: 172.16.1.26

IP ADDRESS

Interface Mode: IPv4 Manual

IP Address: 172.16.7.248

Prefix Length: 22

Default Gateway: 172.16.4.1

IP Interface Status Table >>

Figure 25 IP Interfaces

The screenshot shows the AudioCodes Mediant800B E-SBC configuration interface. The left sidebar is identical to the previous screenshot. The main content area is titled 'Ethernet Devices (1)' and displays a table with one entry. Below the table, there is a configuration form for the selected device, showing fields for Name, VLAN ID, Underlying Interface, Tagging, and MTU.

INDEX	VLAN ID	UNDERLYING INTERFACE	NAME	TAGGING	MTU
0	1	GROUP_1	vlan 1	Untagged	1500

#0[vlan 1]

GENERAL

Name: vlan 1

VLAN ID: 1

Underlying Interface: # [GROUP_1] [View](#)

Tagging: Untagged

MTU: 1500

Ethernet Device Status Table >>

Figure 26 Ethernet Devices