

Genesys PureConnect using AudioCodes Mediant 4000B Version 7.2

Configuration Notes



Version 2018 R3



(See Change Log for summary of Changes.)

Last updated May 15, 2018

Abstract

This document provides the procedures for installing and configuring AudioCodes Mediant 4000B Version 7.2 for Genesys PureConnect Servers.

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1. Introduction

This Configuration Note describes how to set up AudioCodes 4000B Session Border Controller for interworking with Genesys PureConnect Server.

1.1. Intended Audience

The document is intended as a reference for engineers who are responsible for installing and configuring Genesys PureConnect Servers for enabling VoIP calls using AudioCodes 4000B SBC.

1.2. About AudioCodes 4000B SBC Product Series

AudioCodes Mediant 4000 Session Border Controller (SBC), hereafter referred to as *device*, is a mid-to-high scale capacity member of AudioCodes' field-proven hardware-based SBC product family, designed to offer enterprises and service providers a reliable and scalable SBC solution. The device supports wide-ranging SIP interoperability, delivering service assurance and enabling scalable, reliable and secured connectivity between different VoIP networks.

For additional details and options regarding the Mediant 4000B, please contact Audiocodes support or refer to the AudioCodes M4000B User Manual available on the AudioCodes website.

2. Component Information

2.1 AudioCodes 4000B SBC Version

SBC Vendor	AudioCodes
Models	Mediant 4000 B
Software Version	SIP_7.20A.154.052
Protocol	SIP/UDP (to Genesys) SIP/TCP (to Genesys)
Additional Notes	None

Table 2-1: AudioCodes 4000B SBC Version

2.2 Genesys PureConnect Version

Vendor	Genesys
Model	Genesys PureConnect
Software Version	CIC 2018 R3
Protocol	SIP
Additional Notes	None

Table 2-2: Genesys PureConnect Version

2.3 Interoperability Test Topology

The interoperability testing between AudioCodes 4000B SBC and Genesys PureConnect server was done using the following topology setup:

- AudioCodes 4000B SBC is implemented to interconnect between the Enterprise LAN and the SIP Trunk.
 - **Session:** Real-time voice session using the IP-based Session Initiation Protocol (SIP).
 - **Border:** IP-to-IP network border between Genesys PureConnect network in the Enterprise LAN and in the public network.

The figure below illustrates this interoperability test topology:

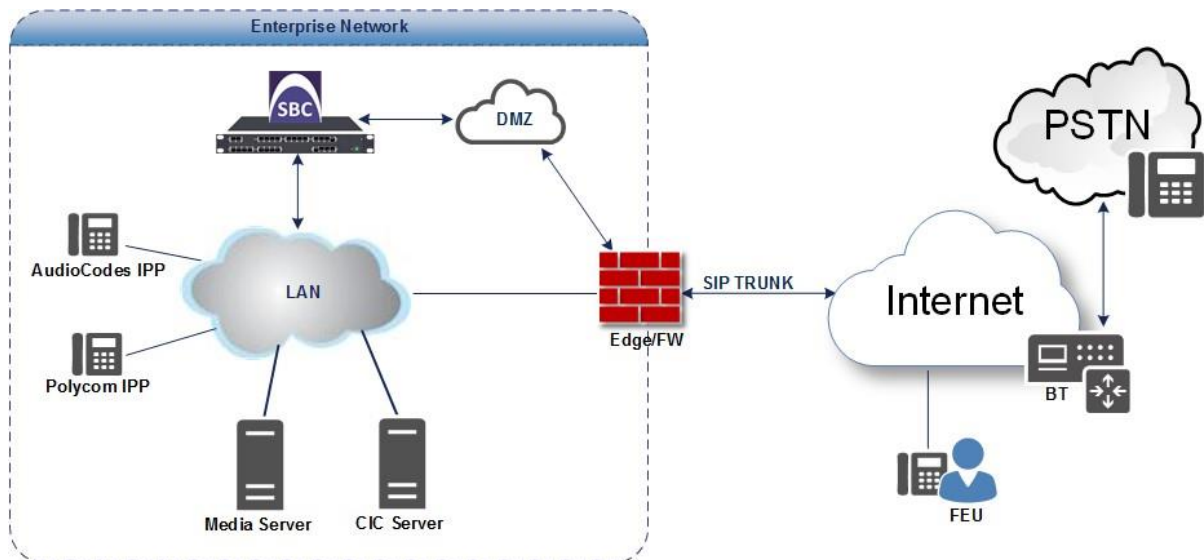


Figure 2-3: Interoperability Test Topology between 4000B SBC and Genesys PureConnect Server

2.3.1 Environment Setup

The interoperability test topology includes the following environment setup:

Area	Setup
Network	Genesys PureConnect server environment is located on the Enterprise's LAN
Signalling Transcoding	Genesys PureConnect server operates with SIP-over-TCP transport type
	Genesys PureConnect server with SIP-over-UDP transport type
Codecs Transcoding	Genesys PureConnect server supports G.711A-law, G.711U-law, and G.729 coder
Media Transcoding	Genesys PureConnect server operates with RTP media type

Table 2-3.1: Environment Setup

2.3.2 Known Limitations

There were no limitations observed in the interoperability tests done for the AudioCodes 4000B SBC interworking with Genesys PureConnect Server.

3. Configuring AudioCodes 4000B SBC

This chapter provides step-by-step procedures on how to configure AudioCodes 4000B SBC for interworking with Genesys PureConnect server. These configuration procedures are based on the interoperability test topology, and include the following main areas:

- AudioCodes 4000B SBC LAN interface - Genesys PureConnect server environment
- AudioCodes 4000B SBC WAN interface – PSTN Gateway

This configuration uses the AudioCodes 4000B SBC's embedded Web server (hereafter, referred to as Web interface).

Notes:

- For implementing Genesys PureConnect server based on the configuration described in this section, AudioCodes 4000B SBC must be installed with a Software License Key that includes the following software features:

✓ SBC

✓ Security

✓ DSP

✓ RTP

✓ SIP

For more information about the Software License Key, contact your AudioCodes sales representative.

- The scope of this interoperability test and the document does **not** cover all security aspects of the Genesys PureConnect server environment. Comprehensive security measures should be implemented per your organization's security policies. For security recommendations on AudioCodes' products, refer to the *Recommended Security Guidelines* document.

3.1 IP Network Interfaces Configuration

This step describes how to configure the Mediant 4000B SBC's IP Network settings.

3.1.1 Configure VLANs

This step describes how to define VLANs for the following physical Ethernet interfaces:

- LAN/CIC server
- WAN/SIP Trunk

1. Open the Ethernet Devices page (**Setup > IP Network > Core Entities > Ethernet Devices**).
2. Use the default VLAN for *IP traffic to SIP Trunk*.

- (1) Associate a VLAN to the physical Ethernet port connect to the SIP Trunk's network/subnet.

Parameter	Value
VLAN ID	1
Underlying Interface	Group_1
Name	Vlan 1
Tagging	Untagged

3. Add a VLAN for *IP traffic to the PureConnect CIC server*.

- (1) Associate a VLAN to the physical Ethernet port connected to the CIC Server's network/subnet.

Parameter	Value
VLAN ID	2
Underlying Interface	Group_5
Name	Vlan 2
Tagging	Untagged

3.1.2 IP Network Interfaces Configuration

This step describes how to configure the Mediant 4000B SBC's IP network interfaces.

➤ IP Network Interfaces Configuration:

4. Open the IP Interfaces Table page (**Setup > IP Network > Core Entities > IP Interfaces Table**).
 - (1) Modify the existing default network interface:
 - (2) Select the 'Index' of the **OAMP + Media + Control** table row, and then click **edit**.
 - (3) Configure the interface to have an IP address and vlan on the SIP Trunk's network/subnet:

Parameter	Value
Name	PSTN WAN
Application Type	OAMP+Media+Control
IP Address	XXX.XXX.XXX.XXX (WAN IP address of SBC used to communicate with SIP Trunk.)
Prefix Length	X (match your SIP Trunk subnet configuration)
Default Gateway	XXX.XXX.XXX.XXX (match your SIP Trunk subnet configuration)
Primary & Secondary DNS Server IP Address	0.0.0.0
Interface Mode	IPv4 Manual
Ethernet Device	Vlan 1

- (4) Click **Apply**
5. Open the IP Interfaces Table page (**Setup > IP Network > Core Entities > IP Interfaces Table**).
 - (1) Modify the existing/New LAN network interface:
 - (2) Select the 'Index' of the **Media + Control** table row, and then click **edit**.
 - (3) Configure the interface to have an IP address and vlan on the CIC server's network/subnet:

Parameter	Value
Name	LAN
Application Type	Media+Control
IP Address	XXX.XXX.XXX.XXX (LAN IP address of SBC used to communicate with the CIC server.)
Prefix Length	X (match your CIC server's subnet configuration)
Default Gateway	XXX.XXX.XXX.XXX (match your CIC server's subnet configuration)
Primary & Secondary DNS Server IP Address	0.0.0.0
Interface Mode	IPv4 Manual
Ethernet Device	Vlan 2

- (4) Click **Apply**

The configured IP network interfaces are shown below:

INDEX	NAME	APPLICATION TYPE	INTERFACE MODE	IP ADDRESS	PREFIX LENGTH	DEFAULT GATEWAY	PRIMARY DNS	SECONDARY DNS	ETHERNET DEVICE
0	PSTN WAN	GAMP + Media + Cc	IPv4 Manual	172.22.43.7	24	172.22.43.1	0.0.0.0	0.0.0.0	vlan 1
1	LAN	Media + Control	IPv4 Manual	172.22.43.9	24	172.22.43.1	0.0.0.0	0.0.0.0	vlan 2

Figure 3.1.2: Configured Network Interfaces IP

3.2 Configure Media Realms

This step describes how to configure Media Realms. This defines the port range allowed for RTP.

➤ To Configure Media Realms:

1. Open the Media Realm Table page (**Setup > Signaling&Media > Core Entities > Media Realms Table**).
2. Add a Media Realm for the WAN interface. You can use the default Media Realm (Index 0):

Parameter	Value
Index	0
Name	DefaultRealm Voice
IPv4 Interface Name	PSTN WAN
Port Range Start	6000 (represents lowest UDP port number used for media on WAN)
Number of Media Session Legs	100 (media sessions assigned to port range)

3. Add a Media Realm for the LAN interface.

Parameter	Value
Index	1
Name	LAN Media Realm
IPv4 Interface Name	LAN
Port Range Start	7000 (represents lowest UDP port number used for media on LAN)
Number of Media Session Legs	100 (media sessions assigned to port range)

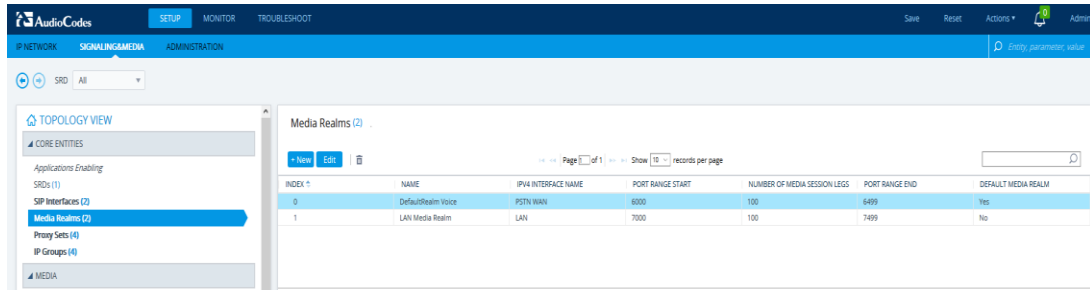


Figure 3.2: Configuring Media Realm for LAN

3.3 Configure SRDs

This step describes how to configure SRDs. For the interoperability test topology.

➤ To Configure SRDs:

1. Open the SRDs Table page (**Setup > Signaling&Media > Core Entities > SRDs Table**).
2. Add or use default an SRDs:

Parameter	Value
Index	0
Name	DefaultSRD
Sharing Policy	Shared
SBC Operation Mode	B2BUA
SBC Routing Policy	Default_SBCRoutingPolicy
Max number of registered users	-1
User Security Mode	Accept All

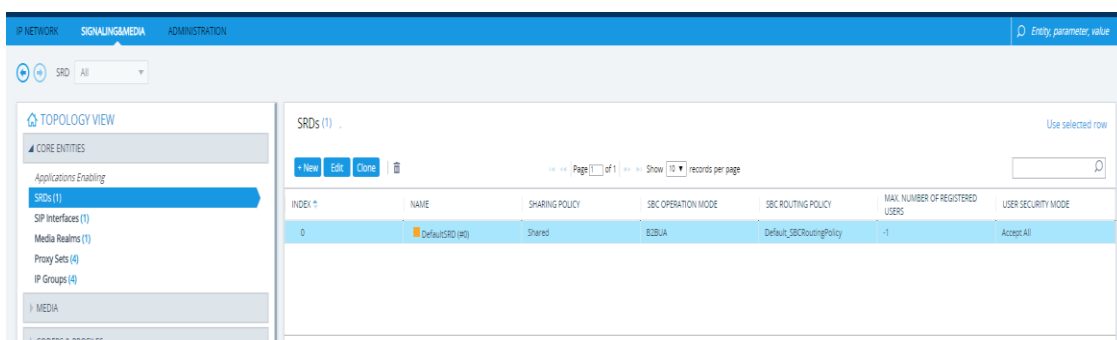


Figure 3.3: Configuring SRDs

3.4 Configure SIP Signalling Interfaces

This step describes how to configure SIP Interfaces. For the interoperability test topology.

➤ To Configure SIP Interfaces:

1. Traverse to SIP Interface Table page through **Setup > Signaling&Media > Core Entities > SIP Interfaces Table**
2. Use the default SIP interface or Add a new Interface for WAN with the below details

Parameter	Value
Index	0
Interface Name	PSTN WAN
Network Interface	PSTN WAN
Application Type	SBC
TCP Port	XXXX (match port set on SIP Trunk)
UDP and TLS	XXXX and XXXX (match port set on SIP Trunk)
Media Realm	DefaultRealm Voice

3. Add a new Interface for LAN with the below details

Parameter	Value
Index	1
Interface Name	LAN
Network Interface	LAN
Application Type	SBC
TCP Port	XXXX (match port set on CIC SIP Lines configuration)
UDP and TLS	XXXX and XXXX (match port set on CIC SIP Lines configuration)
Media Realm	LAN Media Realm

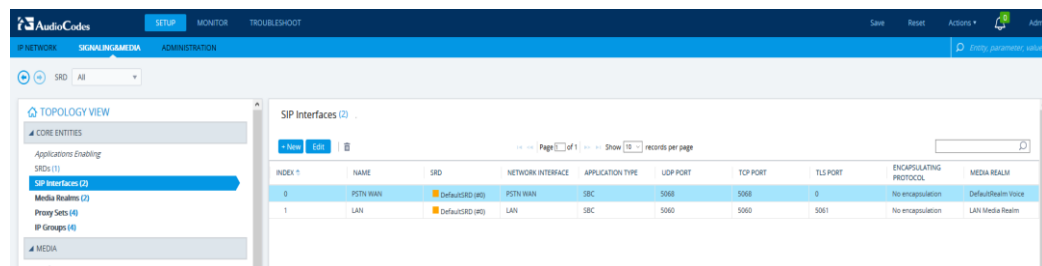


Figure 3.4: Configuring SIP Signalling Interfaces

3.5 Configure Proxy Sets

This step describes how to configure Proxy Sets. The Proxy Set defines the destination address (IP address or FQDN) of the IP entity server. Proxy Sets can also be used to configure load balancing between multiple servers.

For the interoperability test topology, Proxy Sets need to be configured for the following IP entities:

- CIC Servers
- PSTN SIP Trunk

The Proxy Sets will be applied later to the VoIP network by assigning them to IP Groups.

➤ To Configure Proxy Sets:

1. Traverse to **Proxy Sets** through Setup > **Signaling&Media** > **Core Entities** > **Proxy Sets**
2. Add a Proxy Set for the CIC Server by clicking the **+New** Button with the below data.

Parameter	Value
Index	0
Name	CIC Servers
SBC IPv4 SIP Interface	LAN
Redundancy Mode	Homing
Proxy Hot Swap	Enable
Proxy Keep Alive	Using Options
Proxy Keep-Alive Time [Sec]	60
Proxy Load Balancing Method	Disable

- a. Add Proxy Address and Transport Type to the Proxy Sets (i.e. "Proxy Address X items" available at the bottom of each proxy sets:
- b. Enter the IP Address, Port and protocol of CIC Servers. If PureConnect switchover system exists specify IP address for both servers

Parameter	Value
Index	1
Proxy Address	XXX.XXX.XXX.XXX:XXXX (IP Address of CIC Server 1 in switchover pair)
Transport Type	UDP

Parameter	Value
Index	2
Proxy Address	XXX.XXX.XXX.XXX:XXXX (IP Address of CIC Server 2 in switchover pair)
Transport Type	UDP

3. Add a Proxy Set for the PSTN SIP Trunk:

Parameter	Value
Index	2
Name	PSTN Gateway
SBC IPv4 SIP Interface	PSTN WAN
Redundancy Mode	
Proxy Hot Swap	Disable
Proxy Keep-Alive Time [Sec]	60
Proxy Keep Alive	Using Options

- a. Add Proxy Address and Transport Type to the Proxy Sets (i.e. "Proxy Address X items" available at the bottom of each proxy sets:
- b. Enter the IP Address and Port of PSTN SIP Trunk on which the SBC will receive traffic from specified device.

Parameter	Value
Index	1
Proxy Address	XXX.XXX.XXX.XXX:XXXX (IP Address of SIP Trunk)
Transport Type	UDP

Figure 3.5 refers to the configured Proxy Sets on the SBC

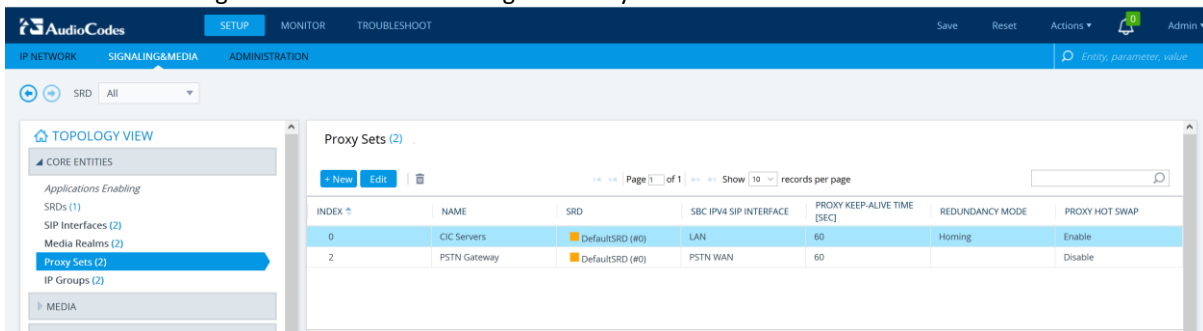


Figure 3.5: Configured Proxy Sets in Proxy Sets Table

3.6 Configure IP Groups

This step describes how to configure IP Groups. The IP Group represents an IP entity on the network with which the Mediant 4000B communicates. This can be a server (e.g., IP PBX or ITSP) or it can be a group of users (e.g., LAN IP phones or Remote users). For servers, the IP Group is typically used to define the server's IP address by associating it with a Proxy Set. Once IP Groups are configured, they are used to configure IP-to-IP routing rules for denoting source and destination of the call.

In this interoperability test topology, IP Groups must be configured for the following IP entities:

- CIC Servers
- PSTN SIP Trunk

➤ **To Configure IP Groups:**

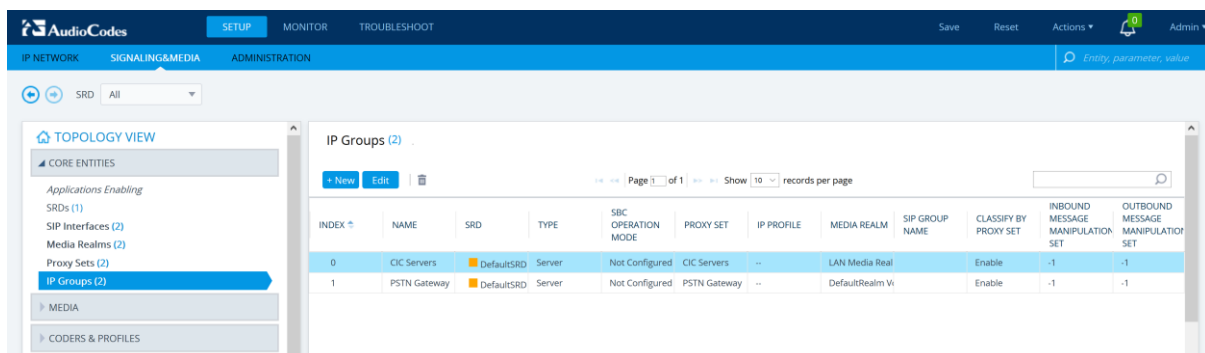
1. Open the IP Group Table page (**Setup > Signaling&Media > Core Entities > IP Groups Table**).
2. Add an IP Group for the CIC Server

Parameter	Value
Index	0
Name	CIC Servers
Type	Server
Proxy Set	CIC Servers
Classify By Proxy Set	Enable
Media Realm	LAN Media Realm

3. Add an IP Group for the PSTN Gateway.

Parameter	Value
Index	1
Name	PSTN Gateway
Type	Server
Proxy Set	PSTN Gateway
Classify By Proxy Set	Enable
Media Realm	DefaultRealm Voice

The configured IP Groups shown in the figure below are for reference.



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
0	CIC Servers	DefaultSRD	Server	Not Configured	CIC Servers	--	LAN Media Real		Enable	-1	-1
1	PSTN Gateway	DefaultSRD	Server	Not Configured	PSTN Gateway	--	DefaultRealm Vi		Enable	-1	-1

Figure 3.7: Configured IP Groups

3.7 Configure PSTN ↔ Call Routing Rules

This step describes how to configure IP-to-IP call routing rules. These rules define the routes for forwarding SIP messages (e.g., INVITE) received from one IP entity to another. The 4000B SBC selects the rule whose configured input characteristics (e.g., IP Group) match those of the incoming SIP message. If the input characteristics do not match the first rule in the table, they are compared to the second rule, and so on, until a matching rule is located. If no rule is matched, the message is rejected. The routing rules use the configured IP Groups to denote the source and destination of the call.

For the interoperability test topology, the following routing rules need to be configured to route the calls PSTN & CIC server via SBC.

- Terminate SIP OPTIONS messages on the 4000B SBC that are received from LAN.
- Calls from PSTN number to CIC server and vice-versa.

➤ To Configure IP-to-IP Routing Rules:

1. Open the IP-to-IP Routing Table page (**Setup > Signaling&Media > SBC > Routing > IP-to-IP Routing Table**).
2. Configure a rule to terminate SIP OPTIONS messages received from the LAN:
 - a. Click **Add/Use existing default**.

Parameter	Value
Index	0
Name	SIP OPTIONS (arbitrary descriptive name)
Source IP Group	Any
Request Type	OPTIONS
Destination Type	Dest Address
Destination Address	internal

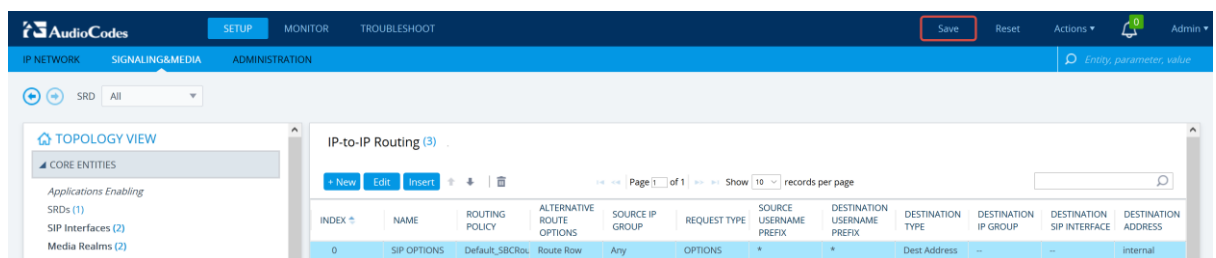


Figure 3.8.2: Configured IP-to-IP Routing Rule for SIP Options

3. To configure a rule to route calls from PSTN to CIC Server:
 - a. Click **New**, and then configure the parameters as follows:

Parameter	Value
Index	4
Name	PSTN to CIC (arbitrary descriptive name)
Source IP Group	PSTN Gateway

Parameter	Value
Destination Type	IP Group
Destination IP Group	CIC Servers
Destination Username Prefix	*(outbound number)
Request Type	All
Destination SIP Interface	LAN

4. To configure a rule to route calls from Any to PSTN:
 - a. Click **New**, and then configure the parameters as follows:

Parameter	Value
Index	3
Name	CIC to PSTN (arbitrary descriptive name)
Source IP Group	CIC Servers
Destination Type	IP Group
Destination IP Group	PSTN Gateway
Destination Username Prefix	*
Request Type	All
Destination SIP Interface	PSTN WAN

Figure 3.8.6 summarizes the consolidated configurations done in the above steps.

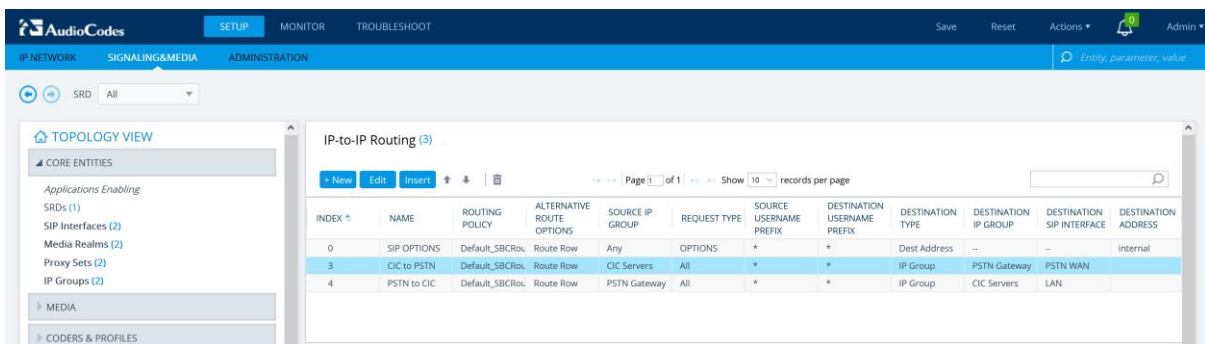


Figure 3.8.6: Configured IP-to-IP Routing Rules

Note: The routing configuration, IP Addresses and DID numbers may change according to your specific deployment topology.

3.8 Reset the Mediant 4000B SBC

After you have completed the configuration of the 4000B SBC described in this chapter, save ("burn") the configuration to the 4000B SBC's flash memory with a reset for the settings to take effect.

➤ **To save the Configuration to flash memory:**

1. Open the IP-Open the Maintenance Actions page (**Setup > Administration > Maintenance menu > Maintenance Actions**).

2. Ensure that the 'Burn to FLASH' field is set to **Yes** (default).
3. Click the **Reset** button.

3.9 SBC Configuration on CIC server.

Add 4000B SBC IP Address as a proxy on CIC Server.

1. Create separate line for external call (**IA > Lines -> SIPLine(example)**).
2. Set *Proxy address* as SBC IP Address (**Open above configured line > SIP Line Configuration > Proxy (IP Address of SBC and Port Number)**)

Parameter	Value
Address	xxx.xxx.xxx.xxx (IP address of the SBC)
Port	XXXX (port used for messaging between CIC and SBC)

Line Configuration - Sipline

SIP Line Configuration | Call Putback | Custom Attributes | History

Line
Identity (In)
Identity (Out)
Audio
Transport
Session
Authentication
Proxy
Registrar
Headers
Access
Region
Recorder

Prioritized list of Proxy addresses:

Address	Port
172.22.43.9	5060

DNS SRV

Add Edit Delete Up Down

☐ ☑ Confirm auto-save OK Cancel Apply

Note: The routing configuration, IP Addresses and DID numbers may change according to your specific deployment topology.

AudioCodes INI File

The *ini* configuration file of the 4000B SBC, corresponding to the Web-based configuration as described is shown below:

Note: To load and save an ini file, use the Configuration File page (**Setup tab > Administration > Maintenance > Configuration File**).

```

,*****
,
,** Ini File **
,*****
,

;Board: Mediant 4000B
;Board Type: 70
;Serial Number: 10457135
;Product Key: FT2920484
;Slot Number: 1
;Software Version: 7.20A.154.052
;DSP Software Version: 5039AE3_R => 721.09
;Board IP Address: 172.22.43.7
;Board Subnet Mask: 255.255.255.0
;Board Default Gateway: 172.22.43.1
;Ram size: 8192M Flash size: 252M
;Num of CPU Cores: 10
;Num of DSP Cores: 24 Num DSP Channels: 2400
;Num of physical LAN ports: 8
;Profile: NONE
;;;Key features;;Board Type: Mediant 4000B ;Security: IPSEC MediaEncryption StrongEncryption
EncryptControlProtocol ;System features: ProductKey=FT2920484 ;Channel Type: RTP
DspCh=10000 ;HA ;Coders: G723 G729 G727 G722 ;IP Media: VXML ;Control Protocols: SIP SBC=2
MSFT CLI ;Default features;;Coders: G711 G726;

;----- HW components-----
;
; Slot # : LAN Ports : DSP's # : Module type
;-----
;1 |0 |0 |Empty |
;2 |0 |0 |Empty |
;3 & 4 |1 - 8 |4 |CSM |
;5 |0 |0 |Empty |
;6 |0 |0 |Empty |
;7 |0 |0 |Empty |
;8 |0 |0 |Empty |

;MAC Addresses in use:
;-----
;GROUP_1 - 00:90:8f:9f:90:32
;None - 00:90:8f:9f:90:32
;GROUP_5 - 00:90:8f:9f:90:30
;None - 00:90:8f:9f:90:30
;-----

```

[SYSTEM Params]

SyslogServerIP = 172.26.23.129
EnableSyslog = 1
NTPServerUTCOffset = 19800
ENABLEPARAMETERSMONITORING = 1
ActivityListToLog = 'pvc', 'afl', 'dr', 'fb', 'swu', 'naa', 'spc', 'll', 'cli', 'ae'
DebugRecordingDestIP = 172.26.27.53
;VpFileLastUpdateTime is hidden but has non-default value
TR069ACSPASSWORD = '\$1\$gQ=='
TR069CONNECTIONREQUESTPASSWORD = '\$1\$gQ=='
NTPServerIP = '0.0.0.0'
;LastConfigChangeTime is hidden but has non-default value
;BarrierFilename is hidden but has non-default value

[BSP Params]

PCMLawSelect = 3
UdpPortSpacing = 5
EnterCpuOverloadPercent = 99
ExitCpuOverloadPercent = 95

[Analog Params]

[ControlProtocols Params]

AdminStateLockControl = 0

[MGCP Params]

[MEGACO Params]

[Voice Engine Params]

[WEB Params]

LogoWidth = '145'
DisplayLoginInformation = 1

[SIP Params]

ISPROXYUSED = 1
GWDEBUGLEVEL = 5
PROXYNAME = 'kalyan-dircic1'
MSLDAPPRIMARYKEY = 'telephoneNumber'
ENERGYDETECTORCMD = 587202560
ANSWERDETECTORCMD = 10486144
;GWAPPCONFIGURATIONVERSION is hidden but has non-default value

[IPsec Params]

[SNMP Params]

[PhysicalPortsTable]

```

FORMAT PhysicalPortsTable_Index = PhysicalPortsTable_Port, PhysicalPortsTable_Mode,
PhysicalPortsTable_SpeedDuplex, PhysicalPortsTable_PortDescription,
PhysicalPortsTable_GroupMember, PhysicalPortsTable_GroupStatus;
PhysicalPortsTable 0 = "GE_1", 1, 4, "User Port #0", "GROUP_1", "Active";
PhysicalPortsTable 1 = "GE_2", 0, 4, "User Port #1", "None", " ";
PhysicalPortsTable 2 = "GE_3", 0, 4, "User Port #2", "None", " ";
PhysicalPortsTable 3 = "GE_4", 0, 4, "User Port #3", "None", " ";
PhysicalPortsTable 4 = "GE_5", 1, 4, "User Port #4", "GROUP_5", "Active";
PhysicalPortsTable 5 = "GE_6", 0, 4, "User Port #5", "None", " ";
PhysicalPortsTable 6 = "GE_7", 0, 4, "User Port #6", "None", " ";
PhysicalPortsTable 7 = "GE_8", 0, 4, "User Port #7", "None", " ";

```

[\PhysicalPortsTable]

[EtherGroupTable]

```

FORMAT EtherGroupTable_Index = EtherGroupTable_Group, EtherGroupTable_Mode,
EtherGroupTable_Member1, EtherGroupTable_Member2;
EtherGroupTable 0 = "GROUP_1", 1, "GE_1", "";
EtherGroupTable 1 = "GROUP_2", 0, "", "";
EtherGroupTable 2 = "GROUP_3", 0, "", "";
EtherGroupTable 3 = "GROUP_4", 0, "", "";
EtherGroupTable 4 = "GROUP_5", 1, "GE_5", "";
EtherGroupTable 5 = "GROUP_6", 0, "", "";
EtherGroupTable 6 = "GROUP_7", 0, "", "";
EtherGroupTable 7 = "GROUP_8", 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 1 = 2, "GROUP_5", "vlan 2", 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, 172.22.43.7, 24, 172.22.43.1, "PSTN WAN", 0.0.0.0, 0.0.0.0, "vlan 1";
InterfaceTable 1 = 5, 10, 172.22.43.9, 24, 172.22.43.1, "LAN", 0.0.0.0, 0.0.0.0, "vlan 2";
```

```
[ \InterfaceTable ]
```

```
[ ACCESSLIST ]
```

```
FORMAT ACCESSLIST_Index = ACCESSLIST_Source_IP, ACCESSLIST_Source_Port,
ACCESSLIST_PrefixLen, ACCESSLIST_Start_Port, ACCESSLIST_End_Port, ACCESSLIST_Protocol,
ACCESSLIST_Use_Specific_Interface, ACCESSLIST_Interface_ID, ACCESSLIST_Packet_Size,
ACCESSLIST_Byte_Rate, ACCESSLIST_Byte_Burst, ACCESSLIST_Allow_type_enum;
ACCESSLIST 0 = "172.22.43.50", 0, 0, 5068, 5068, "Any", 0, "PSTN WAN", 0, 0, 0, 0;
```

```
[ \ACCESSLIST ]
```

```
[ 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",
"$1$UzVhbTJgPGxvYj5kbDwDAwAHV1AFxwtYDFleWfIXQhNDSxVMThNOTkxPT0QbSbG1tuGy40Tiv
L7pu7267bj09PQ=", 1, 0, 4, -1, 15, 60, 200, "27f0717d7a7d6206e0ef57ace65521b9", "";
WebUsers 1 = "User",
"$1$cEIAfKJCQUJESxweTEpOTxu2uea05+fl5Om/7Ly+7Oq9p6Cg8qGn9fWurP+uqq+qp5fDxpOVnZSX
nsqcks+anZ0=", 1, 0, 2, -1, 15, 60, 50, "d4bff036c2642d42ddca28cae04338a4", "";
```

```
[ \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 ]
```

```
[ 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 0 = "DefaultRealm Voice", "PSTN WAN", "", 6000, 100, 6499, 1, "", "", 1;
CpMediaRealm 1 = "LAN Media Realm", "LAN", "", 7000, 100, 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 0 = "DefaultSRD", 0, -1, 1, 0, 0, 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 0 = "PSTN WAN", "PSTN WAN", 2, 5068, 5068, 0, "", "DefaultSRD", "", "", -1, 0, 500, -1,
0, "DefaultRealm Voice", 0, -1, -1, -1, 0, 1, "";
SIPInterface 1 = "LAN", "LAN", 2, 5060, 5060, 5061, "", "DefaultSRD", "", "", -1, 0, 500, -1, 0, "LAN
Media Realm", 0, -1, -1, -1, 0, 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 0 = "CIC Servers", 1, 60, 0, 1, "DefaultSRD", 0, "", 1, -1, "", "", "LAN", "", "", 1, 1, 10, -1;
ProxySet 2 = "PSTN Gateway", 1, 60, 0, 0, "DefaultSRD", 0, "", -1, -1, "", "", "PSTN WAN", "", "", 1, 1,
60, -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_EnableSBCClientForking,
IPGroup_SourceUriInput, IPGroup_DestUriInput, IPGroup_ContactName, IPGroup_Username,
IPGroup_Password, IPGroup_UUIFormat, 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 0 = 0, "CIC Servers", "CIC Servers", "", "", -1, 0, "DefaultSRD", "LAN Media Realm", 1, "", -1,
-1, -1, 0, 0, "", 0, -1, -1, "", "Admin", "$1$aCkNBwIC", 0, "", "", 0, "", "", 0, 0, "", 0, 0, -1, 0, 0, 0, "", -
1, "", 0;
IPGroup 1 = 0, "PSTN Gateway", "PSTN Gateway", "", "", -1, 0, "DefaultSRD", "DefaultRealm Voice",
1, "", -1, -1, -1, 0, 0, "", 0, -1, -1, "", "Admin", "$1$aCkNBwIC", 0, "", "", 0, "", "", 0, 0, "", 0, 0, -1, 0,
0, 1, "", -1, "", 0;
```

```
[ \IPGroup ]
```

```
[ ProxyIp ]
```

```
FORMAT ProxyIp_Index = ProxyIp_ProxySetId, ProxyIp_ProxyIpIndex, ProxyIp_IpAddress,
ProxyIp_TransportType;
ProxyIp 1 = "2", 1, "172.22.46.50:5068", 0;
```

```
ProxyIp 3 = "0", 1, "172.26.24.77", 0;
```

```
[ \ProxyIp ]
```

```
[ IP2IPRouting ]
```

```
FORMAT IP2IPRouting_Index = IP2IPRouting_RouteName, IP2IPRouting_RoutingPolicyName,
IP2IPRouting_SrcIPGroupName, IP2IPRouting_SrcUsernamePrefix, IP2IPRouting_SrcHost,
IP2IPRouting_DestUsernamePrefix, IP2IPRouting_DestHost, IP2IPRouting_RequestType,
IP2IPRouting_MessageConditionName, IP2IPRouting_ReRouteIPGroupName, IP2IPRouting_Trigger,
IP2IPRouting_CallSetupRulesSetId, IP2IPRouting_DestType, IP2IPRouting_DestIPGroupName,
IP2IPRouting_DestSIPInterfaceName, IP2IPRouting_DestAddress, IP2IPRouting_DestPort,
IP2IPRouting_DestTransportType, IP2IPRouting_AltRouteOptions, IP2IPRouting_GroupPolicy,
IP2IPRouting_CostGroup, IP2IPRouting_DestTags, IP2IPRouting_SrcTags,
IP2IPRouting_IPGroupSetName, IP2IPRouting_RoutingTagName, IP2IPRouting_InternalAction;
IP2IPRouting 0 = "SIP OPTIONS", "Default_SBCRoutingPolicy", "Any", "*", "*", "*", "*", 6, "", "Any",
0, -1, 1, "", "", "internal", 0, -1, 0, 0, "", "", "", "", "default", "";
IP2IPRouting 3 = "CIC to PSTN", "Default_SBCRoutingPolicy", "CIC Servers", "*", "*", "*", "*", 0, "",
"Any", 0, -1, 0, "PSTN Gateway", "PSTN WAN", "", 0, -1, 0, 0, "", "", "", "", "default", "";
IP2IPRouting 4 = "PSTN to CIC", "Default_SBCRoutingPolicy", "PSTN Gateway", "*", "*", "*", "*", 0,
"", "Any", 0, -1, 0, "CIC Servers", "LAN", "", 0, -1, 0, 0, "", "", "", "", "default", "";
```

```
[ \IP2IPRouting ]
```

```
[ GwRoutingPolicy ]
```

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

```
[ \GwRoutingPolicy ]
```

```
[ LoggingFilters ]
```

```
FORMAT LoggingFilters_Index = LoggingFilters_FilterType, LoggingFilters_Value,
LoggingFilters_LogDestination, LoggingFilters_CaptureType, LoggingFilters_Mode;
LoggingFilters 0 = 1, "", 1, 2, 0;
```

```
[ \LoggingFilters ]
```

```
[ Test_Call ]
```

```
FORMAT Test_Call_Index = Test_Call_EndpointURI, Test_Call_CalledURI, Test_Call_RouteBy,
Test_Call_IPGroupName, Test_Call_DestAddress, Test_Call_DestTransportType,
Test_Call_SIPInterfaceName, Test_Call_ApplicationType, Test_Call_AutoRegister,
Test_Call_UserName, Test_Call_Password, Test_Call_CallParty, Test_Call_MaxChannels,
Test_Call_CallDuration, Test_Call_CallsPerSecond, Test_Call_TestMode, Test_Call_TestDuration,
Test_Call_Play, Test_Call_ScheduleInterval, Test_Call_QOEProfile, Test_Call_BWProfile;
Test_Call 1 = "66232201", "0019998889999", 2, "", "172.22.46.50:5068", 0, "PSTN WAN", 2, 0,
"Admin", "$1$aCkNBwIC", 0, 1, 20, 10, 0, 0, 1, 0, "", "";
```

[\Test_Call]

[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 = "Smapi", "Header.User-Agent.content prefix 'smapi'";
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]

[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, 1, "";
AudioCoders 1 = "AudioCodersGroups_0", 1, 1, 2, 90, -1, 1, "";
AudioCoders 2 = "AudioCodersGroups_0", 2, 0, 3, 7, -1, 1, "";
AudioCoders 3 = "AudioCodersGroups_0", 3, 20, 2, 90, -1, 1, "";

```

[\AudioCoders]

Change Log

The following changes have been made to this document since release:

Date	Change
May 15, 2018	Initial Release.