Configuration Note

Mediant 1000B

VoIP Gateway and Avaya Aura Messaging With Nortel CS1000 using T1 QSIG

Version 6.8

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Notice

This document describes how to connect the AudioCodes Mediant 1000B Gateway with Avaya Aura Messaging Nortel Communication Server 1000 using T1 QSIG.

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Abbreviations and Terminology

Each abbreviation, unless widely used, is spelled out in full when first used.

Document Revision Record

LTRT	Description
12470	Initial document release for Version 6.8.

Documentation Feedback

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1 Introduction

This document describes how to connect the AudioCodes Mediant 1000B Gateway with Avaya Aura Messaging Nortel Communication Server 1000 using T1 QSIG.

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2 Components Information

2.1 PBX or IP-PBX

PBX Vendor	Nortel
Model	Communication Server 1000
Software Version	Version 7.6
Telephony Signaling	T1 QSIG
Additional Notes	None

2.2 AudioCodes Gateway

Gateway Vendor	AudioCodes
Model	Mediant 1000B
Software Version	6.80A.231.002
VoIP Protocol	SIP
Additional Notes	Note

2.3 Avaya Aura Messaging Server Version

Version	Avaya Aura Messaging Server Release 6.3.x or later

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3 Prerequisites

3.1 Gateway Prerequisites

None

3.2 PBX Prerequisites

Refer to Section 4.1.

3.3 Cabling Requirements

Refer to Section 4.1.

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4 PBX Setup Notes

4.1 PBX Configuration

Configure the PBX as specified in Section 5 of the *Avaya Aura Messaging PBX Configuration Note (cn88024 – Nortel M1 T1 QSIG.pdf)* at https://downloads.avaya.com/elmodocs2/Octel/mm_r2_0/cn88024.pdf.

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5 Gateway Configuration

The procedures below describe the configuration of AudioCodes' gateway required for integration with both the PBX and the Avaya Aura Messaging System.

You can configure the gateway using one of the following methods:

- Uploading an *ini* configuration file (*.ini file) – see Section 5.1
- Configuring the gateway via the Web interface – see Section 5.2

5.1 Configuring the ini File

For initial setup and configuration, you can upload an *ini* file (*.ini) to the AudioCodes gateway that includes the template *ini* file settings shown in Appendix A.

➢ **To upload an ini file:**

1. Create a new text file (e.g., using Microsoft Notepad) with the file extension *.*ini*.
2. Copy the *ini* file settings from Appendix A and paste them into the text file.
3. Upload the file to the gateway.

Typically, for interoperability with the deployed PBX interfaces and Avaya Aura Messaging, it is sufficient that you use this *ini* file template. However, due to specificity of site deployment, you may need to modify or define certain parameters (such as IP addresses and Trunk settings) after uploading the *ini* file.

5.2 Configuring AudioCodes Gateway

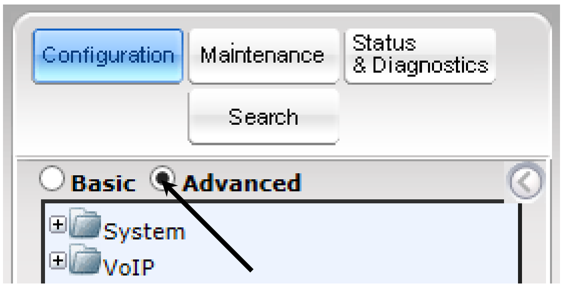
The procedures below provide step-by-step instructions for configuring the AudioCodes gateway, using the Web interface. Ensure that you configure the gateway according to the configuration settings displayed in the screenshots provided below.

The instructions describe how to setup Avaya Aura Messaging with the gateway implementing SIP over TLS **with** and **without** SRTP.

Note the following Web interface guidelines:

- When making configuration changes for each procedure, ensure that you click the **Submit** button to save your changes; unless otherwise instructed.
- Some of the changes may require a gateway reset for these changes to take effect. Therefore, (and to save time), reset the gateway only after you complete all of the gateway configurations.
- These procedures are performed using the gateway's Web-based management tool (i.e., embedded Web server). Before you begin configuring the gateway, ensure that the Web interface's Navigation tree is in **Advanced** menu display mode (i.e., the **Advanced** option on the Navigation bar is selected), as shown below:

Figure 5-1: Advanced Mode



5.3 Step 1: Configure IP Network Interfaces

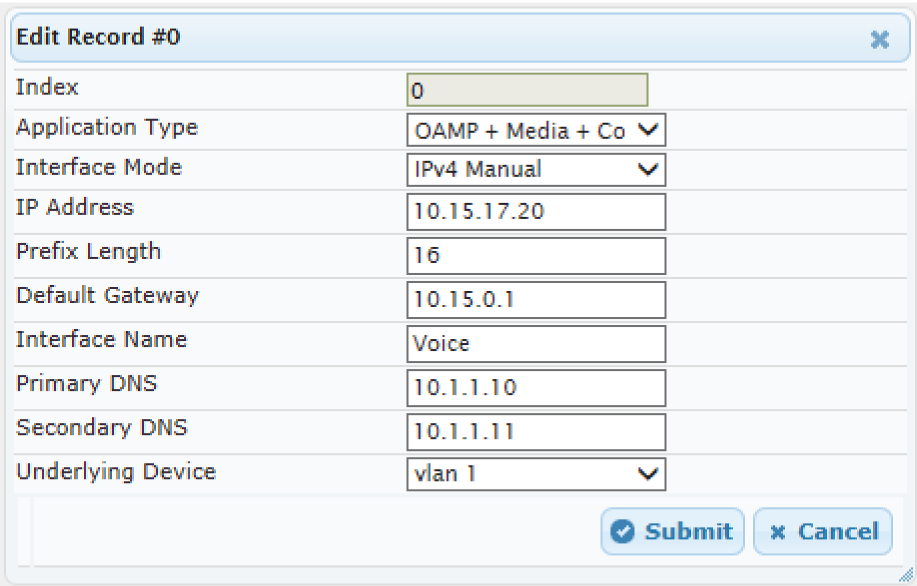
This step describes how to configure the IP network interfaces.

➢ **To configure the IP network interfaces:**

1. Open the IP Interfaces Table page (**Configuration** tab > **VoIP** > **Network** > **IP Interfaces Table**).
2. Modify the existing network interface:
   a. Select the 'Index' radio button of the **OAMP + Media + Control** table row, and then click **Edit**.
   b. Configure the interface as follows:

Parameter	Value
IP Address	**10.15.17.20** (IP address of the gateway)
Prefix Length	**16** (subnet mask in bits for 255.255.0.0)
Default Gateway	**10.15.0.1**
Interface Name	**Voice** (arbitrary descriptive name)
Primary DNS Server IP Address	**10.1.1.10**
Secondary DNS Server IP Address	**10.1.1.11**
Underlying Device	**vlan 1**

Figure 5-2: Edit Record



3. Click **Submit**.

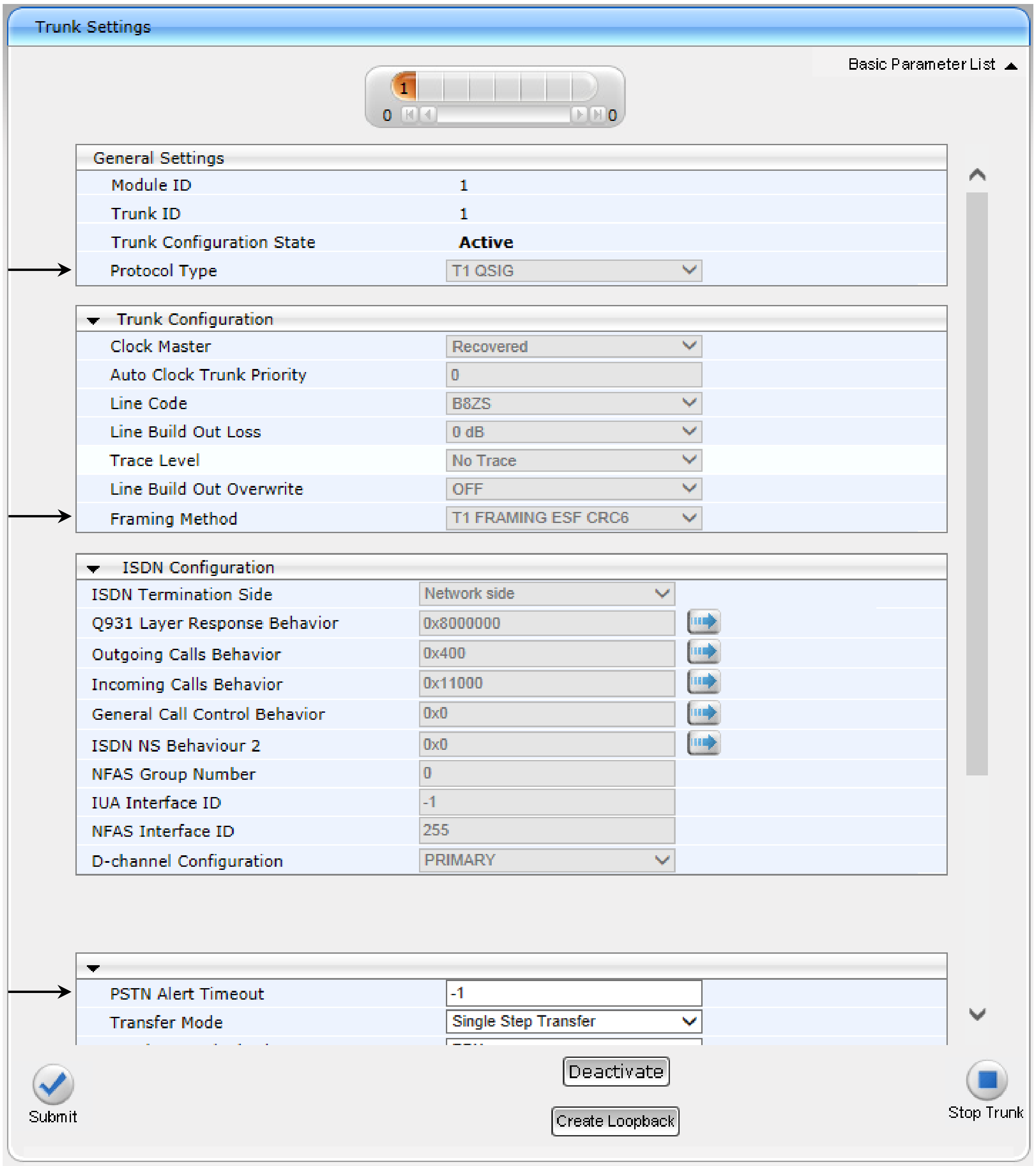
5.4 Step 2: Configure Trunk Settings

This step describes how to configure Trunk settings.

➢ **To set up Trunk settings:**

1. Open the 'Trunk Settings' page (**Configuration** tab > **VoIP** > **PSTN** > **Trunk Settings**).

Figure 5-3: Trunk Settings



2. Before you can modify parameters on this page, you need to click the **Stop Trunk** button to de-activate the trunk.

3. Configure the relevant values to your setup for the following:
   - Protocol Type
   - Framing Method
   - Transfer Mode
4. After you configure the parameters, click the **Apply Trunk Settings** button, and then wait for the trunk settings to be applied. Once the trunk settings are applied, the trunk status icons at the top of the page change to green for all trunks that are connected to the PBX.
5. If there is more than one trunk connection between the PBX and gateway, repeat this step for each of the trunks, or click the **Apply to All Trunks** button.

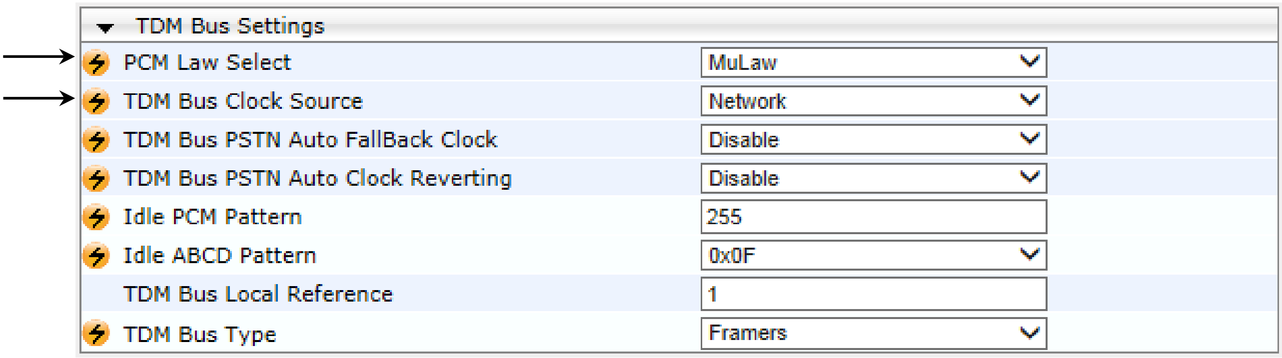
5.5 Step 3: Configure TDM BUS Settings

This step describes how to configure TDM Bus settings.

➤ **To configure TDM Bus settings:**

1. Open the 'TDM Bus Settings' page (**Configuration** tab > **VoIP** > **TDM** > **TDM Bus Settings**).

Figure 5-4: TDM Bus Settings



2. From the ‘PCM Law Select’ drop-down list, select ‘**MuLaw**’.
3. From the ‘TDM Bus Clock Source’ drop-down list, select ‘**Network**’.
4. Click **Submit**.

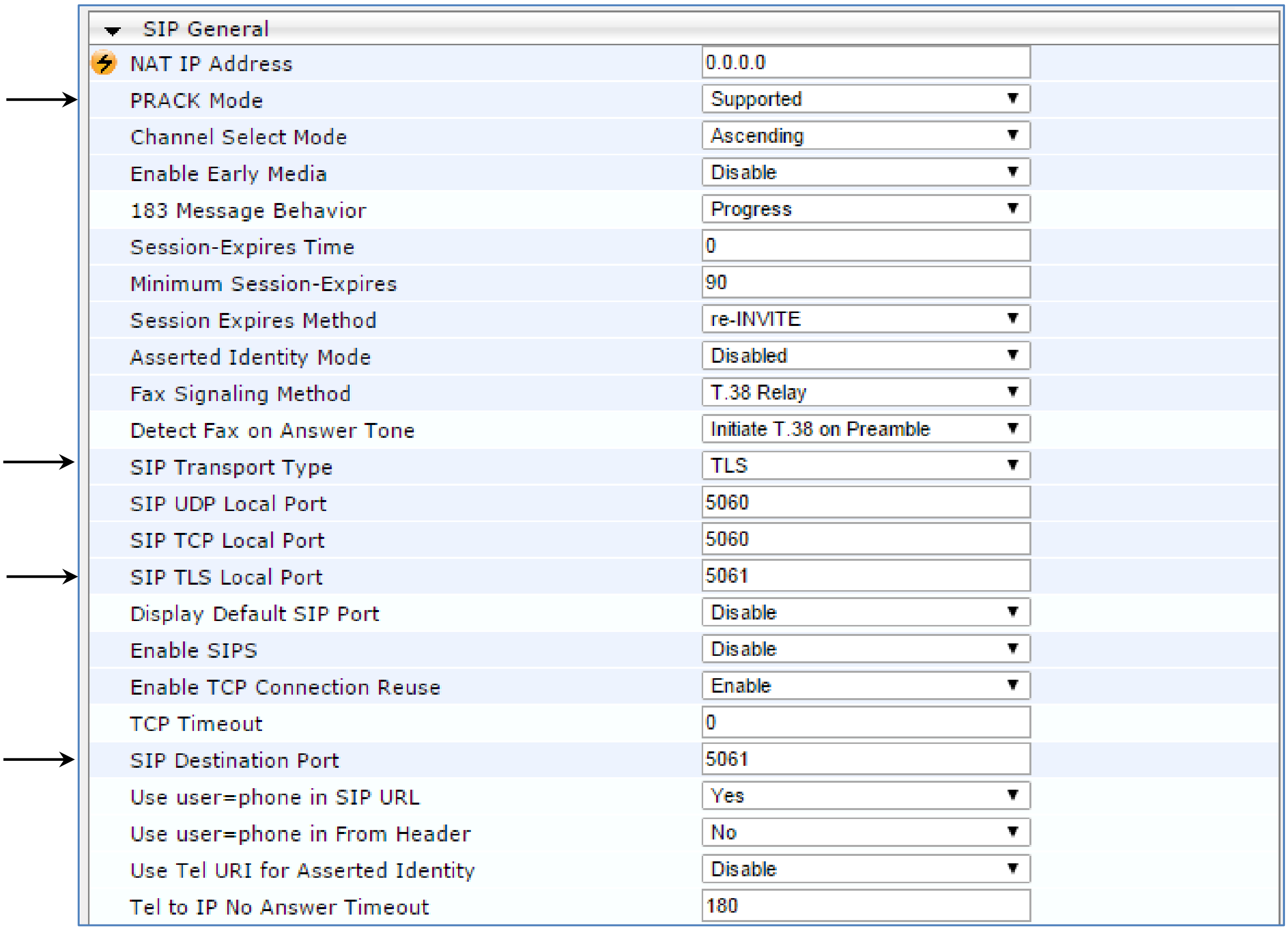
5.6 Step 4: Configure the SIP Environment

This step describes how to configure the SIP environment.

➢ **To configure the SIP environment:**

1. Open the 'SIP General Parameters' page (**Configuration** tab > **VoIP** > **SIP Definition** > **General Parameters**).

Figure 5-5: SIP General Settings for TLS



2. It is recommended that you configure the gateway and Avaya Aura Messaging to use **TLS**. If you prefer to use TCP, then ensure that you configure the following gateway settings (in the screen above) for **TCP**:

➢ **To configure the gateway and Avaya Aura Messaging to use TLS:**

1. From the **SIP Transport Type** drop-down list, select **TLS**.
2. In the **SIP TCP Local Port** field, enter "5061".
3. In the **SIP Destination Port** field, enter "5061".
4. Click **Submit**.

➢ **To configure the gateway and Avaya Aura Messaging to use TCP:**

1. From the **SIP Transport Type** drop-down list, select **TCP**.
2. In the **SIP TCP Local Port** field, enter "5060".
3. In the **SIP Destination Port** field, enter "5060".
4. Click **Submit**.

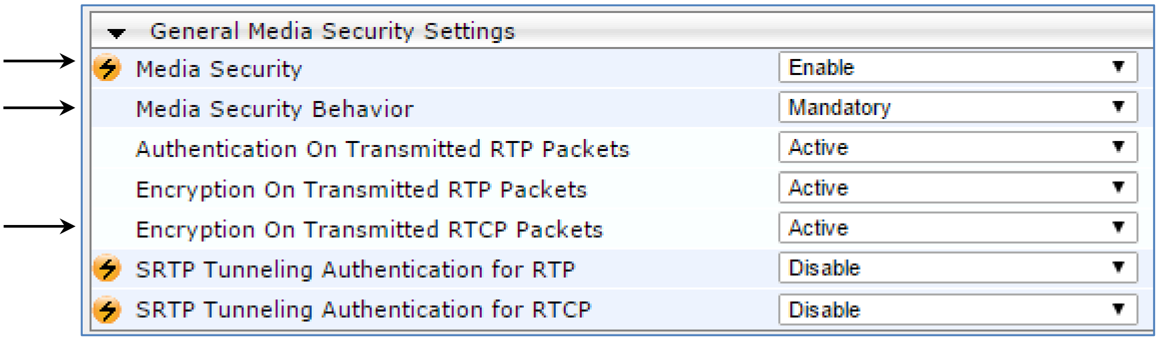
5.7 Step 5: Configure SRTP

This step describes how to configure SRTP.

➢ **To configure SRTP:**

1. Open the 'Media Security' page (**Configuration** Tab: **VoIP** > **Media** > **Media Security**).

Figure 5-6: General Media Security Settings - SIP over TLS with SRTP



➢ **To configure SIP over TLS with SRTP:**

1. From the 'Media Security' drop-down list, select **Enable**.
2. From the 'Media Security Behavior' drop-down list, select **Mandatory**.
3. From the 'Encryption On Transmitted RTCP Packets' drop-down list, select **Active**.
4. Click **Submit**.

➢ **To configure SIP over TLS without SRTP:**

1. From the 'Media Security' drop-down list, select **Disabled**.
2. From the 'Media Security Behavior' drop-down list, select **Mandatory**.
3. From the "Encryption On Transmitted RTCP Packets" drop-down list, select **Inactive**.
4. Click **Submit**.

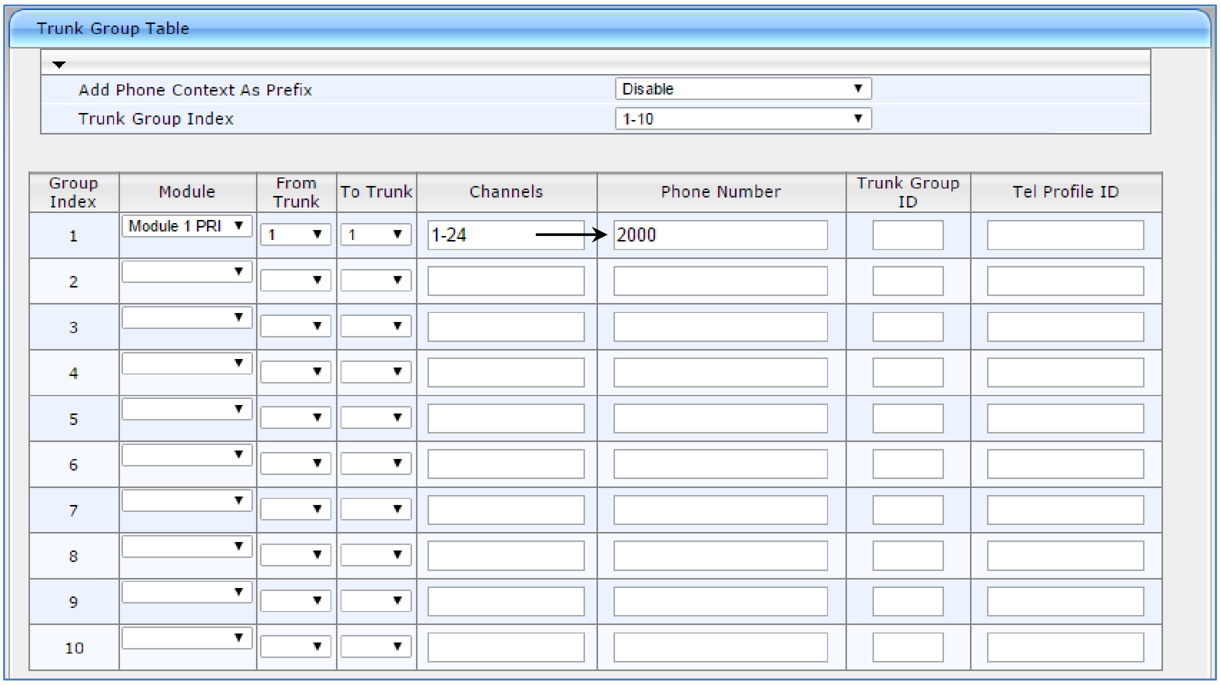
5.8 Step 6: Configure Trunk Group

This step describes how to configure the Trunk group.

➢ **To configure the Trunk group:**

1. Open the 'Trunk Group Table' page (**Configuration** Tab: **VoIP** > **GW and IP to IP** > **Trunk Group** > **Trunk Group**).

Figure 5-7: Trunk Group Table



3. Match the 'Phone Number' field with the pilot number of the QSIG trunk.
4. If more than one trunk is used, in the 'To Trunk' field, enter the last trunk number (e.g., 2) pertaining to the Trunk Group and then in the 'Channel' field, enter the number of channels (e.g., 1-48) accordingly.
5. Click **Submit**.

5.9 Step 7: Configure SIP Environment and Gateway Name

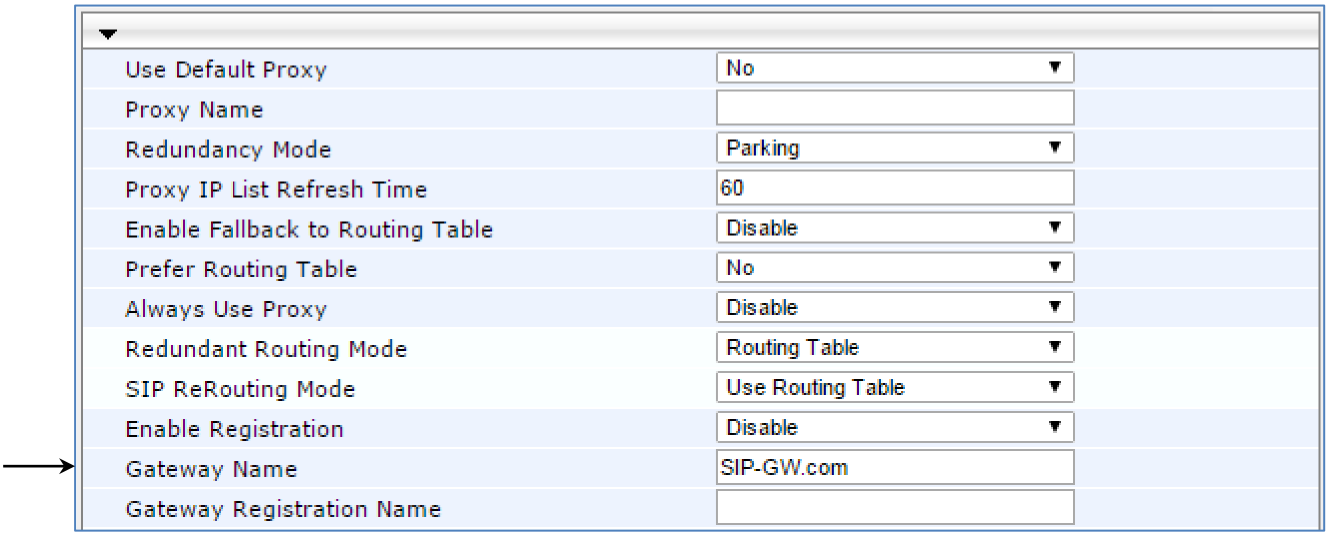
This step describes how to configure the SIP Environment and Gateway Name.

➢ **To configure the SIP Environment and Gateway Name:**

Open the 'Proxy & Registration' page (**Configuration** tab > **VoIP** > **SIP Definitions** > **Proxy & Registration**).

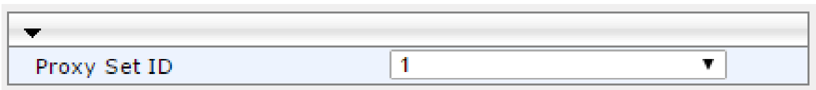
1. In the 'Gateway Name' field, enter an FQDN name to the gateway (for example, SIP-GW.com). Any gateway name that corresponds to your network environment is applicable, but it must meet requirements for FQDNs.

Figure 5-8: Proxy & Registration



2. Open the 'Proxy & Registration' page (**Configuration** tab > **VoIP** > **VoIP Network** > **Proxy Sets Table**).
3. From the 'Proxy Set ID' drop-down list, select **1**.

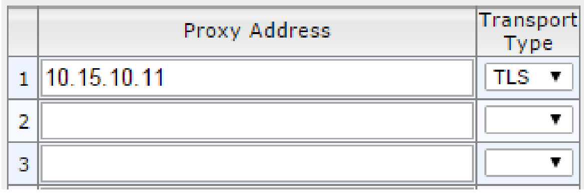
Figure 5-9: Proxy Set ID



4. In the ‘Proxy Address’ field, enter either the IP address or FQDN of the Avaya Aura Messaging (AAM). If your Avaya Aura Messaging system includes multiple AAM’s, then enter multiple IP addresses or FQDNs for the MAS’s - one AAM per table row. It is recommended that you use FQDNs.

5. From the ‘Transport Type’ drop-down list, select the transport type for each AAM.

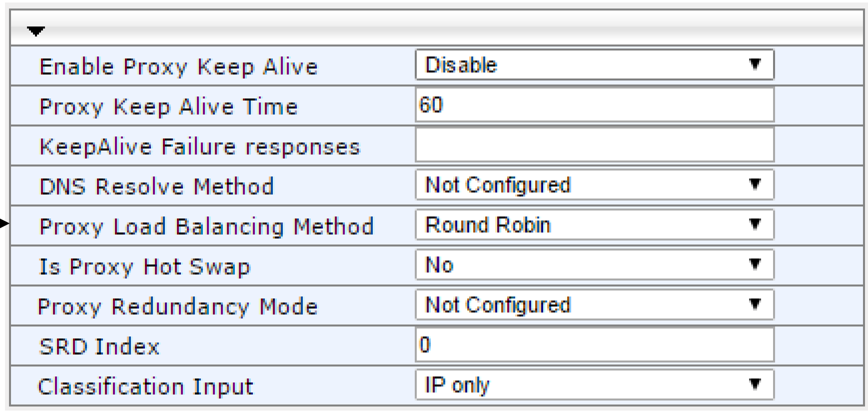
Figure 5-10: Proxy Address and Transport Type



Note: When not configured, the value of the ‘SIPTransportType‘ parameter is used.

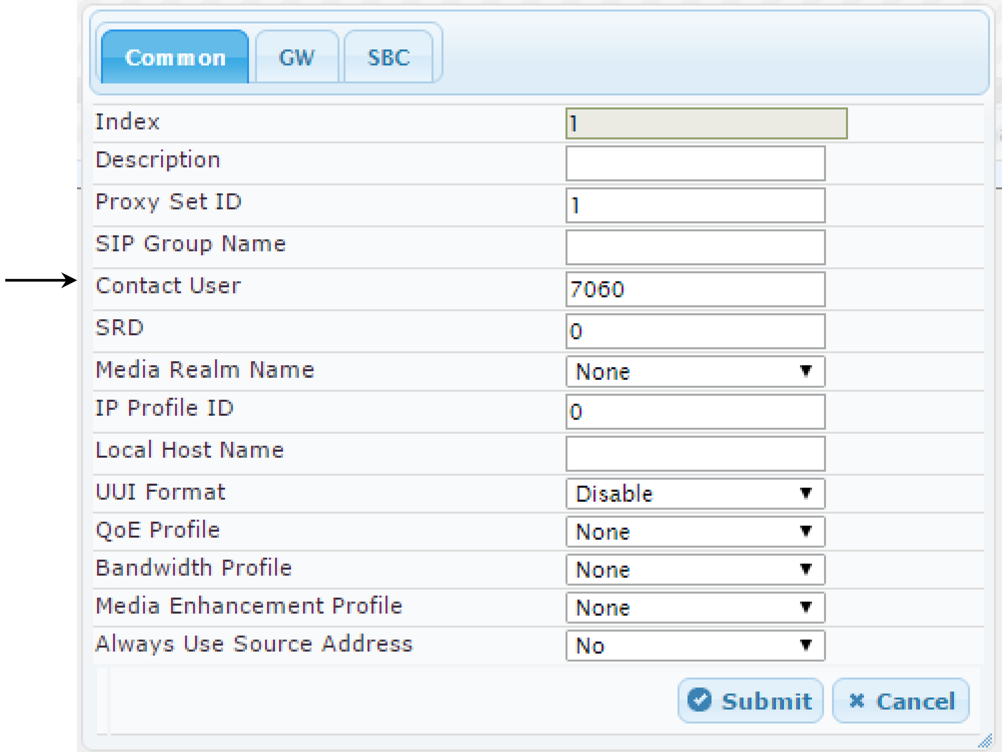
6. If your Avaya Aura Messaging System includes multiple AAM’s, from the ‘Proxy Load Balancing Method’ drop-down, select **Round Robin** to load balance the calls across all AAM’s in your Avaya Aura Messaging System.

Figure 5-11: Proxy Sets Table



7. Open the 'IP Group Table' page (**Configuration** tab > **VoIP** > **VoIP Network** > **IP Group Table**).
8. Click **Add** to add IP Group 1.
9. Configure the ‘Contact User’ field if necessary.

Figure 5-12: Add IP Group 1



10. Click **Submit**.

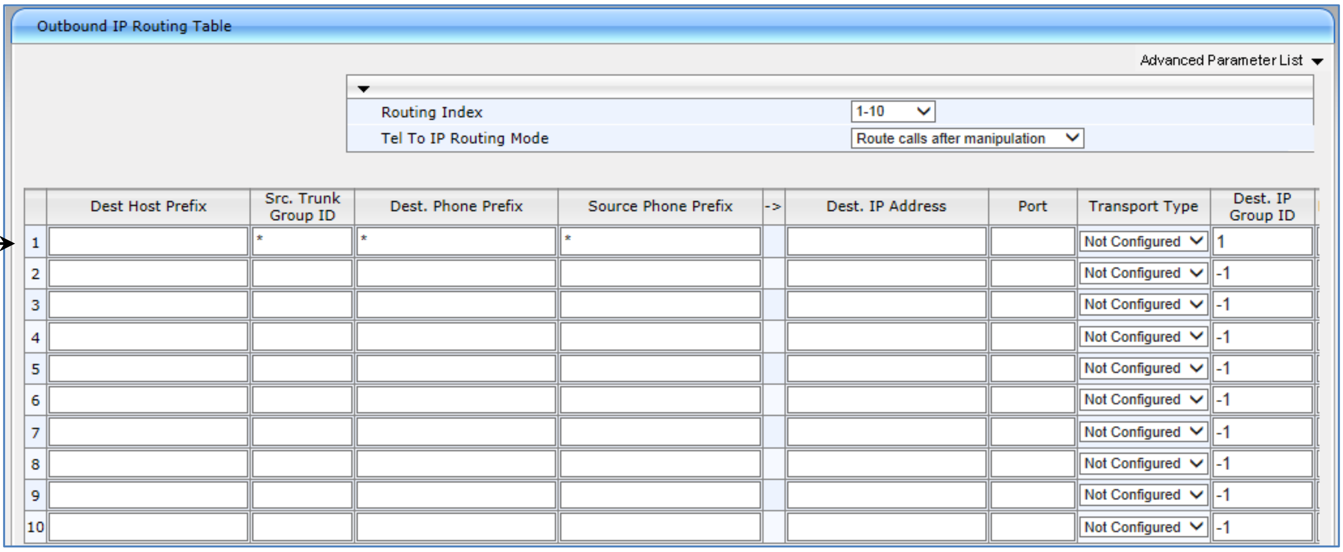
5.10 Step 8: Configure Routing

This step describes how to configure routing.

➢ **To configure routing:**

1. Open the 'Outbound IP Routing Table' page (**Configuration** tab > **VoIP** > **GW and IP to IP** > **Routing** > **Tel to IP Routing**).
2. Configure routing from PBX (Tel) to IP. Route all messages from the PSTN to IP Group 1.

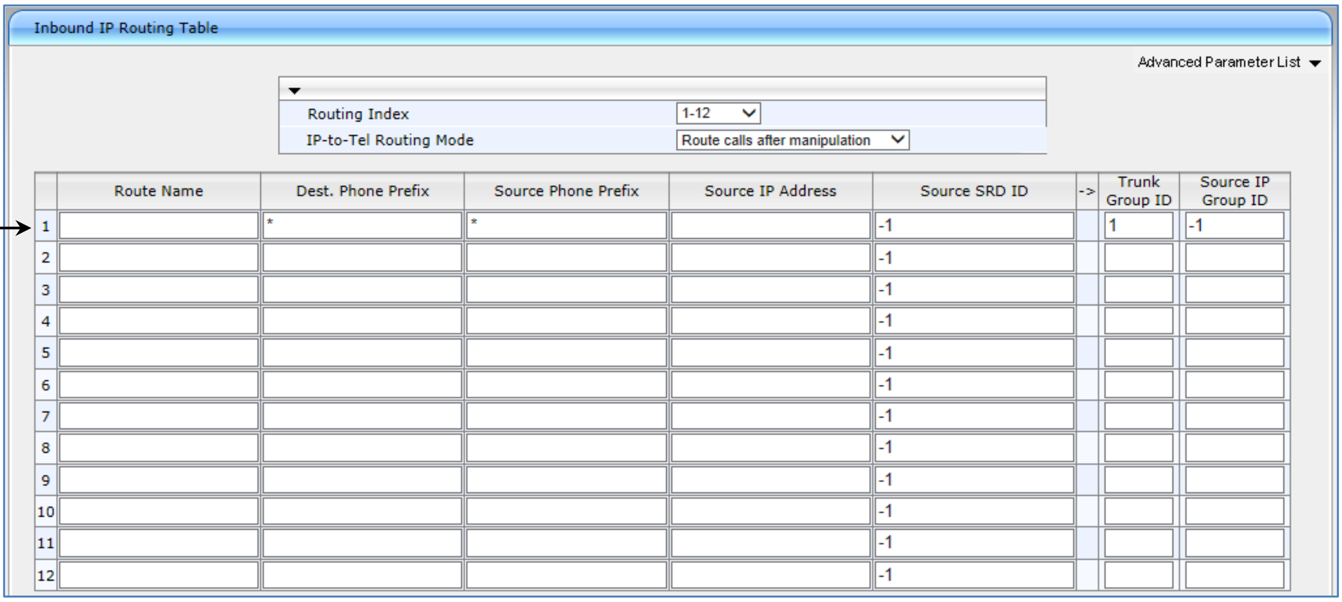
Figure 5-13: Outbound IP Routing Table



	Dest Host Prefix	Src. Trunk Group ID	Dest. Phone Prefix	Source Phone Prefix	->	Dest. IP Address	Port	Transport Type	Dest. IP Group ID
1		*	*	*				Not Configured	1
2								Not Configured	-1
3								Not Configured	-1
4								Not Configured	-1
5								Not Configured	-1
6								Not Configured	-1
7								Not Configured	-1
8								Not Configured	-1
9								Not Configured	-1
10								Not Configured	-1

3. Open the 'Inbound IP Routing Table' page (**Configuration** tab > **VoIP** > **GW and IP to IP** > **Routing** > **IP to Trunk Group Routing**).
4. Configure routing from IP to PBX. Route all messages from the IP to Trunk Group 1.

Figure 5-14: Inbound IP Routing Table



	Route Name	Dest. Phone Prefix	Source Phone Prefix	Source IP Address	Source SRD ID	->	Trunk Group ID	Source IP Group ID
1		*	*		-1		1	-1
2					-1			
3					-1			
4					-1			
5					-1			
6					-1			
7					-1			
8					-1			
9					-1			
10					-1			
11					-1			
12					-1			

5. Click **Submit**.

5.11 Step 9: Configure Coders

This step describes how to configure coders.

➢ **To configure coders:**

1. Open the 'Coders Table' page (**Configuration** tab > **VoIP** > **Coders and Profiles** > **Coders**).

Figure 5-15: Coders Table

Coder Name	Packetization Time	Rate	Payload Type	Silence Suppression
G.711U-law	20	64	0	Disabled

2. From the 'Coder Name' drop-down list, select **G.711U-law.**

Note: Configure the Coders table to contain only **G.711U-law**.

3. Click **Submit**.

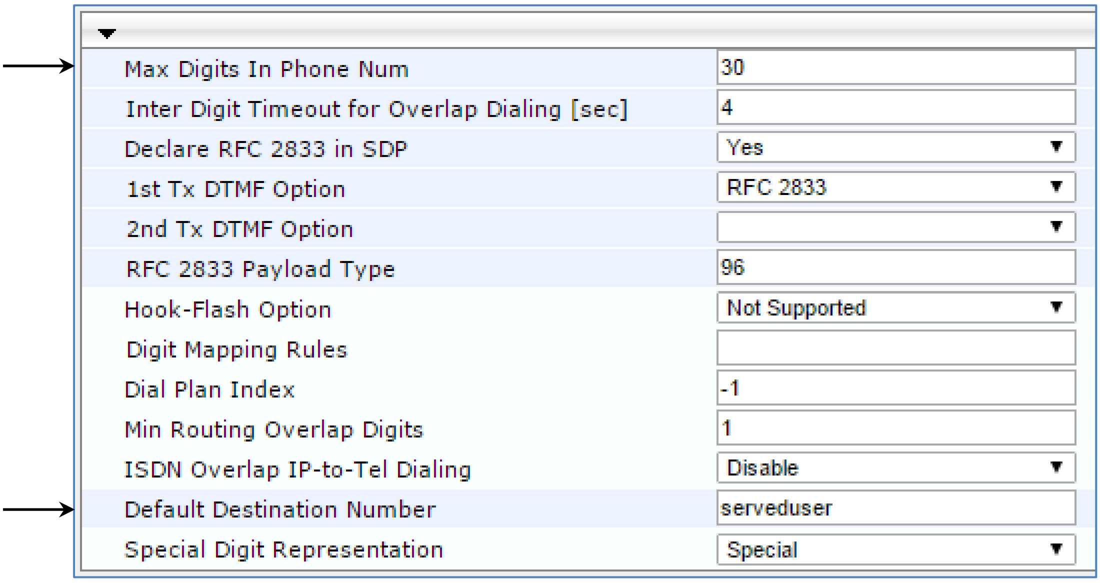
5.12 Step 10: Configure Digit Collection

This step describes how to configure Digit Collection.

➢ **To configure digit collection:**

1. Open the 'DTMF & Dialing' page (**Configuration** Tab: **VoIP** > **GW and IP to IP** > **DTMF and Supplementary** > **DTMF & Dialing**).

Figure 5-16: DTMF & Dialing



2. In the 'Max Digits In Phone Num' field, enter "30".
3. In the 'Default Destination Number field', enter "serveduser".
4. Click **Submit**.

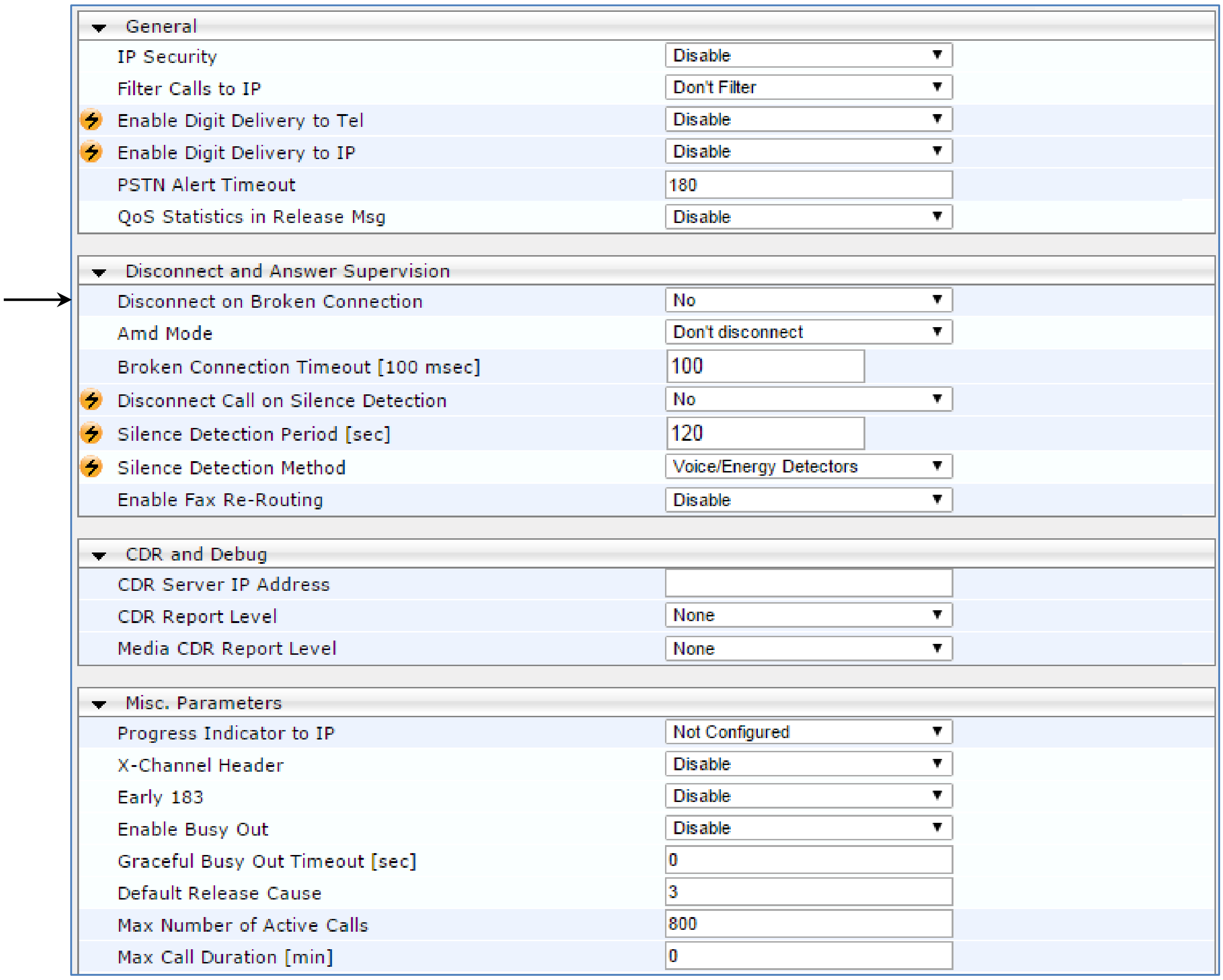
5.13 Step 11: Configure General Settings

This step describes how to configure the General settings.

➢ **To configure General settings:**

1. Open the 'Advanced Parameters' page (**Configuration** tab > **VoIP** > **SIP Definitions** > **Advanced Parameters**).

Figure 5-17: General Settings



2. From the 'Disconnect on Broken Connection' drop-down list, select '**No**'.
3. Click **Submit**.

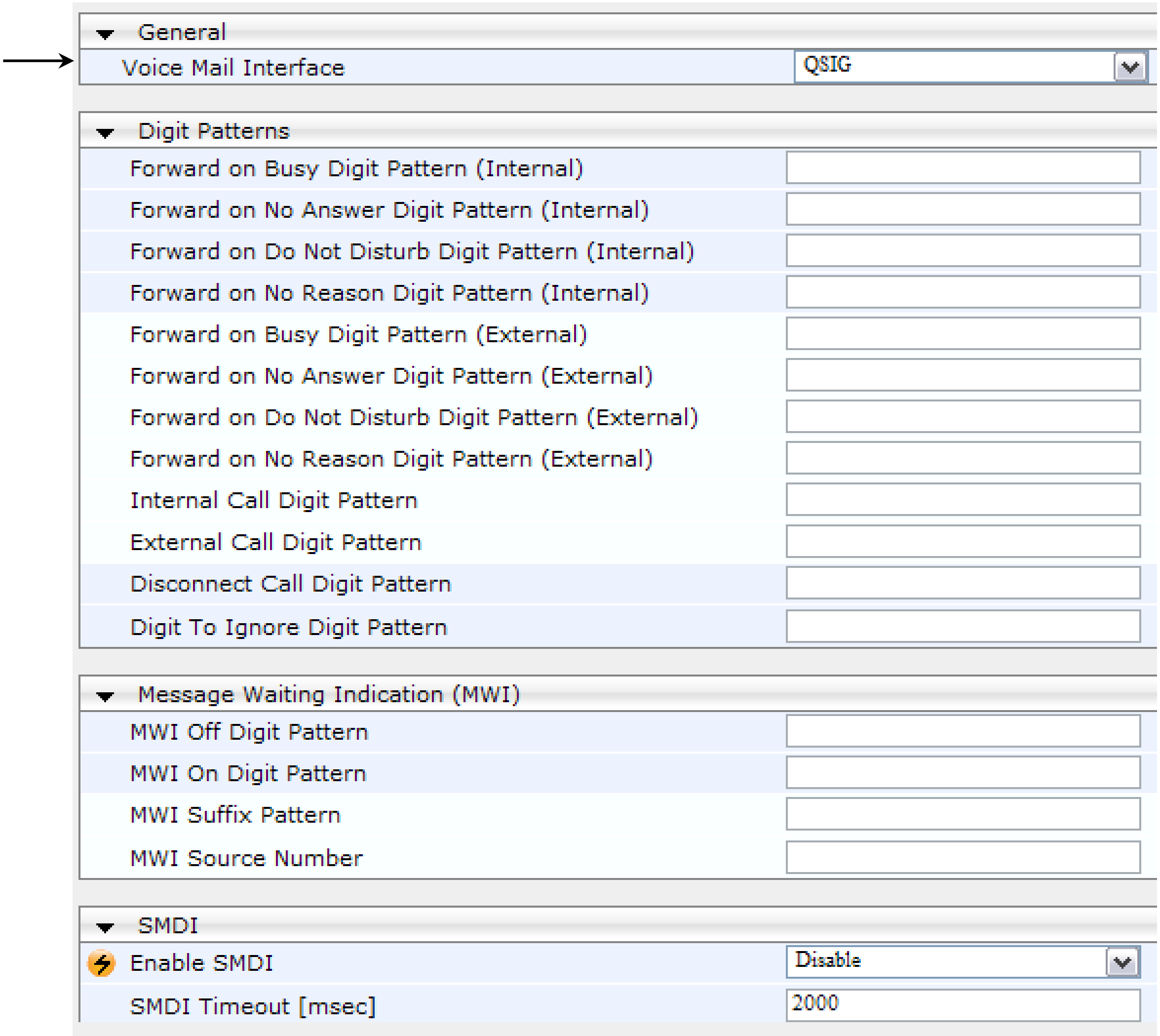
5.14 Step 12: Configure Voice Mail Settings

This step describes how to configure Voice Mail settings.

➢ **To configure Voice Mail Settings:**

1. Open the 'Voice Mail Settings' page (**Configuration** Tab: **VoIP** > **Services** > **Voice Mail Settings**).

Figure 5-18: Voce Mail Settings



2. From the ‘Voice Mail Interface’ drop-down list, select ‘QSIG’.
3. Click **Submit**.

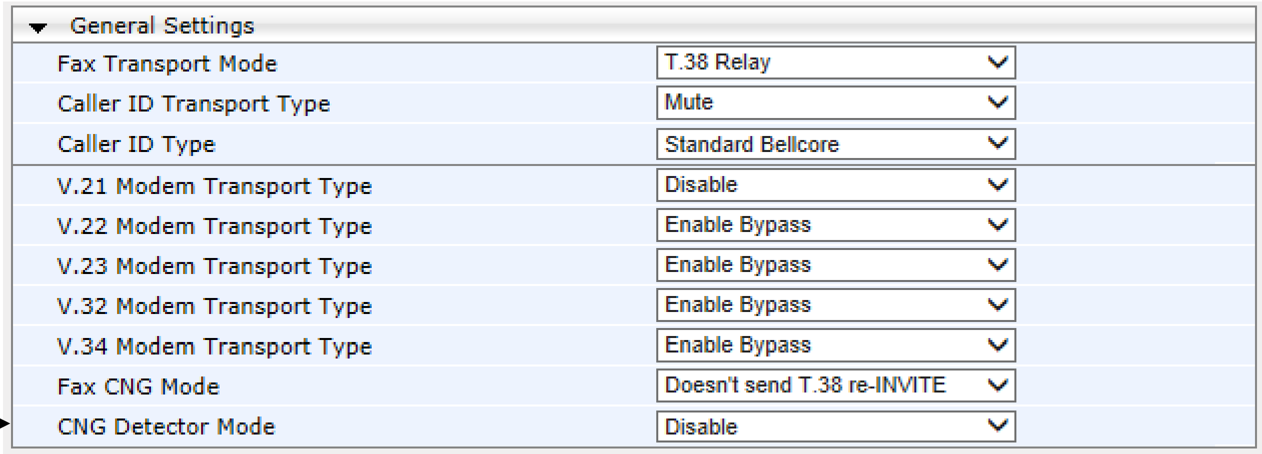
5.15 Step 13: Configure CNG Detector Mode

This step describes how to configure CNG Detector Mode.

➢ **To configure CNG Detector Mode:**

1. Open the 'Fax/Modem/CID Settings' page (**Configuration** Tab: **VoIP** > **Media** > **Fax/Modem/CID Settings**).

Figure 5-19: General Settings



2. From the 'CNG Detector Mode' drop-down list, select '**Disable**'.
3. Click **Submit**.

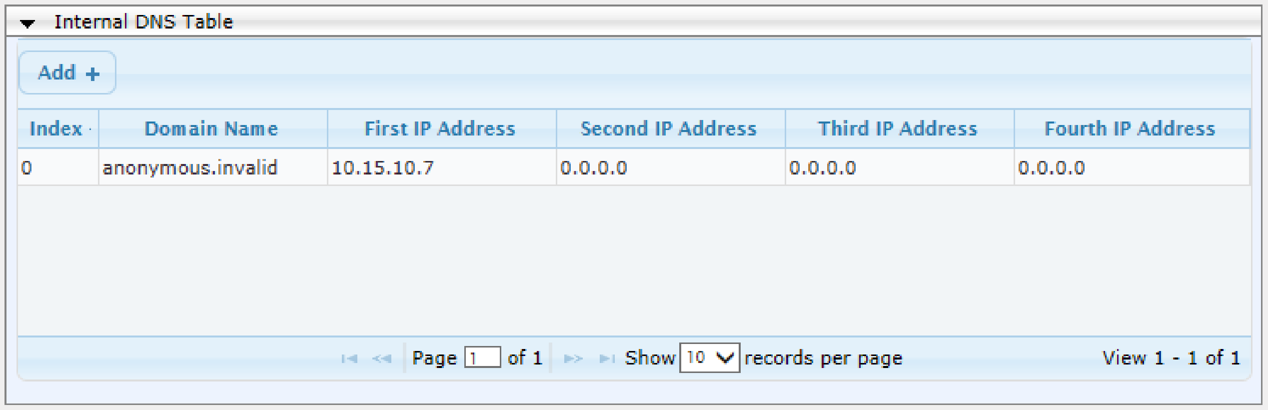
5.16 Step 14: Add Internal DNS Table

This step describes how to add an internal DNS table.

➢ **To add an internal DNS Table:**

1. Open the 'Internal DNS Table' page (**Configuration** Tab: **VoIP** > **Network** > **DNS** > **Internal DNS Table**).

Figure 5-20: Internal DNS Table



Index	Domain Name	First IP Address	Second IP Address	Third IP Address	Fourth IP Address
0	anonymous.invalid	10.15.10.7	0.0.0.0	0.0.0.0	0.0.0.0

2. In the 'Domain Name' field, enter "anonymous.invalid".
3. In the 'First IP Address' field enter the IP address of the Mediant 1000 (e.g., 10.15.10.7).
4. Click **Submit**.

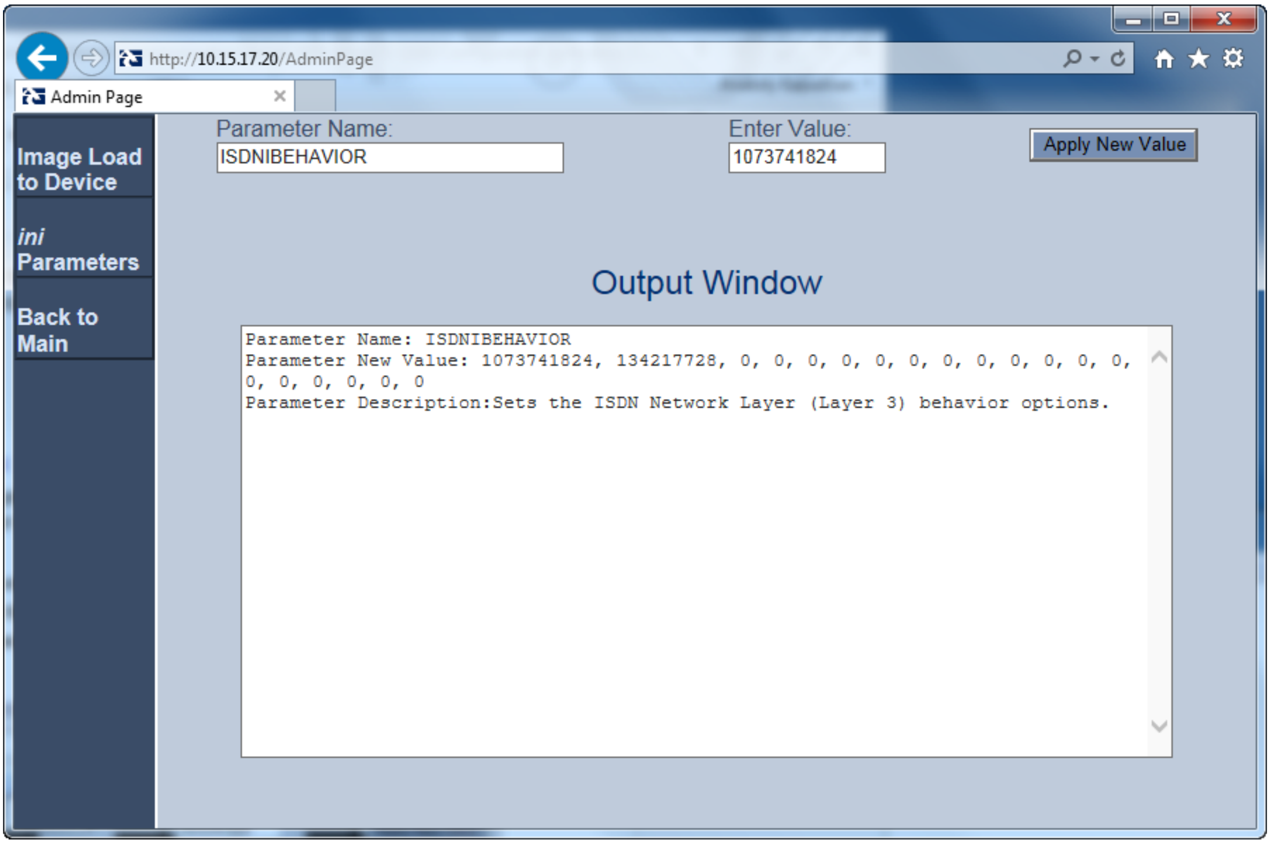
5.17 Step 15: Modify Parameters in the AdminPage

This step describes how to modify parameters on the AdminPage.

➢ **To modify parameters on the AdminPage:**

1. Open the 'AdminPage' page at the following URL (case-sensitive):
   `http://<gateway’s IP address>/AdminPage`
2. Click on the ***ini* Parameters** menu option.
3. In the ‘Parameter Name’ field, enter " ISDNIBehavior ".
2. In the ‘Enter Value’, enter “1073741824”.
4. Click **Apply New Value**.
5. In the Output Window, confirm that all the fields have been correctly updated.
6. Repeat Steps 3 to 5 for the following Parameter Names and appropriate Enter Values.
   - ECNLPMode: “1”
   - EnableMWI: “1”
   - SubscriptionMode: “1”

Figure 5-21: AdminPage

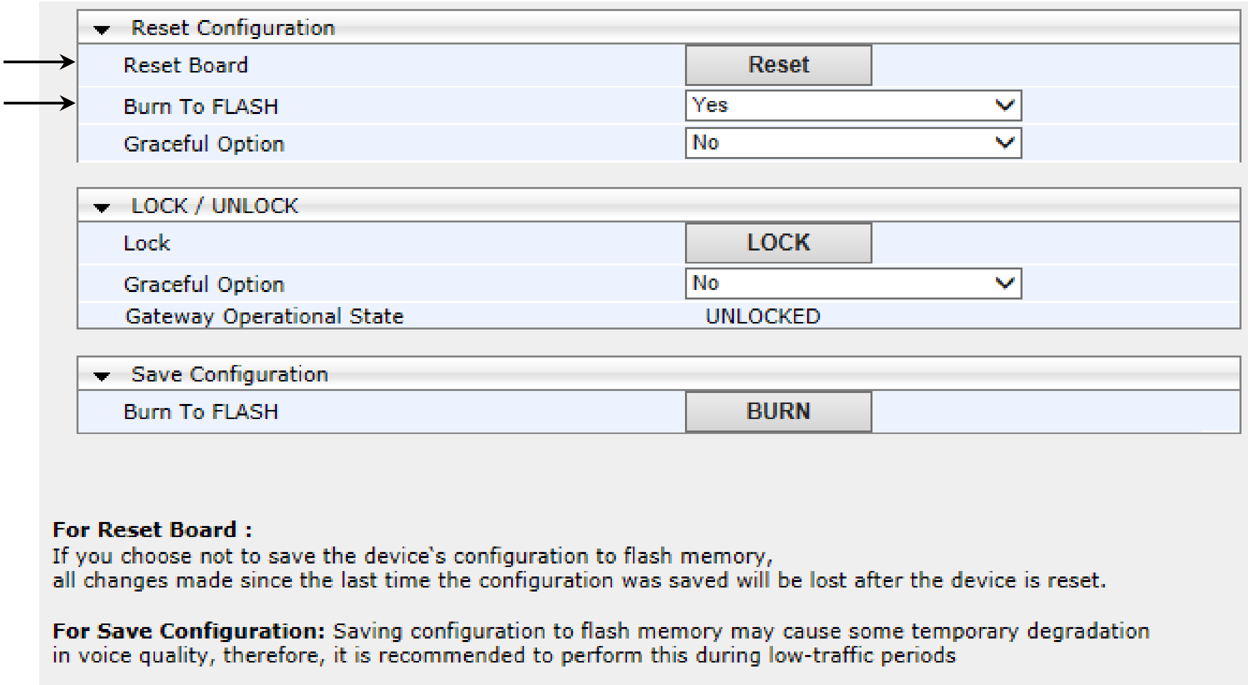


5.18 Step 16: Reset the Mediant 1000B Gateway

This step describes how to reset the Mediant 1000B gateway. After you have completed the gateway configuration as described in the steps above, burn the configuration to the gateway's flash memory and reset the gateway.

Click the **Reset** button to burn the configuration to flash and reset the gateway (ensure that the 'Burn to FLASH' field is set to "Yes").

Figure 5-22: Reset the Gateway



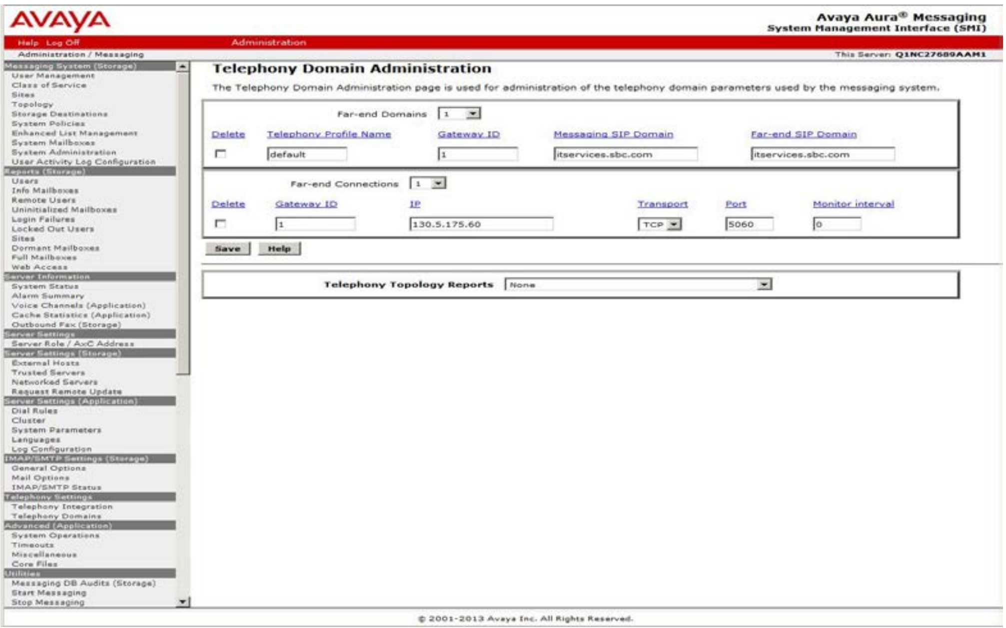
6 Avaya Aura Messaging Server Configuration

The following describes how to configure the Avaya Aura Messaging Server with the AudioCodes' gateway.

➢ **To configure the Avaya Aura Messaging Server with the AudioCodes' gateway:**

1. Log in to the Storage server Messaging SMI page.
2. Navigate to the Telephony Domain Administration page.

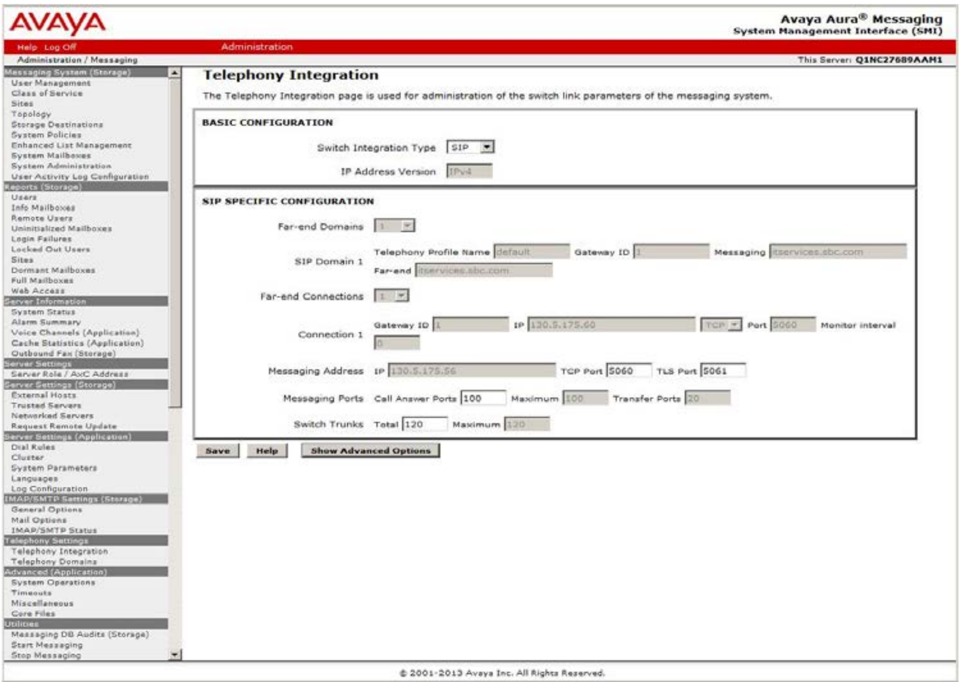
Figure 6-1: Avaya – Telephony Domain Administration Example



a. Under the Far-End Domain group, add the following fields:
   - Telephony Profile Name
   - Gateway ID
   - Messaging SIP Domain
   - Far-end SIP Domain
b. Under the Far-End Connections group, enter the Gateway ID that was configured in the Far-End domain and add the following:
   - Corresponding SIP Mediant 1000B IP address
   - Transport (TCP/TLS)
   - Port number
   - Monitor Interval (defaults to 0).
c. Save the Telephony Domain Administration screen.
d. Log in to the Network server page and select the correct Mailbox Number Length.

3. Log in to the Messaging Application server Messaging SMI page.

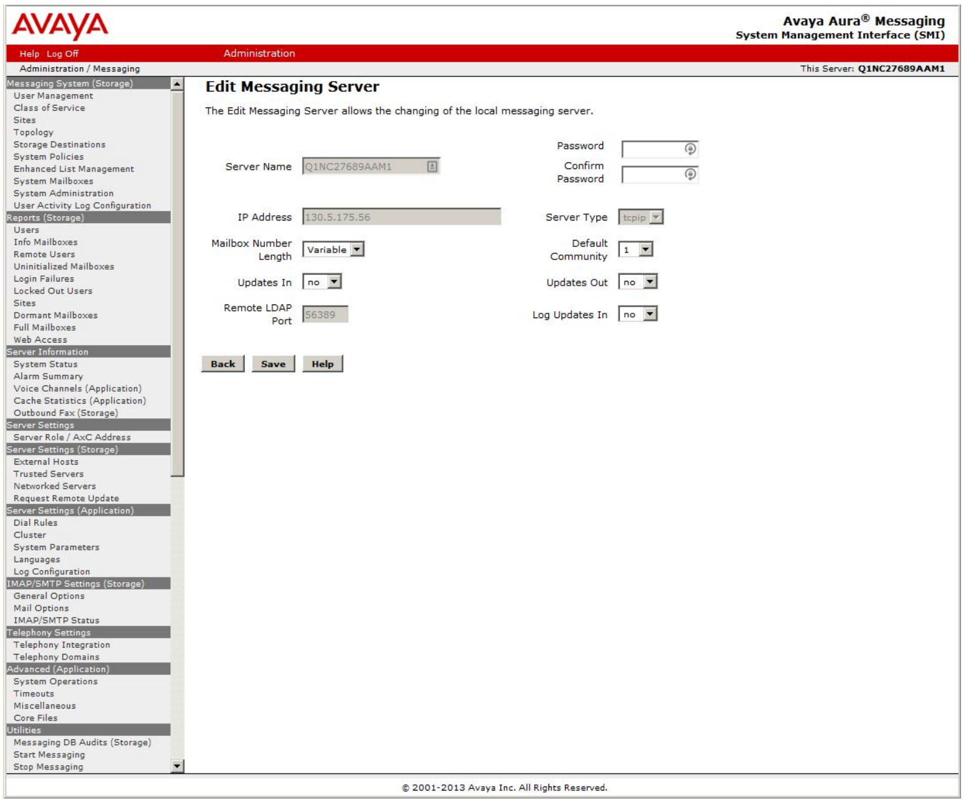
Figure 6-2: Avaya – Telephony Domain Administration Example



a. Select the Telephony Integration page.
b. Verify that the Switch Integration Type is set to 'SIP'.
c. Verify that the TCP port defaults to 5060.
d. Verify that the TLS port defaults to 5061.
e. In the 'Messaging Ports Call Answer Ports' field, enter the number of messaging ports configured on the CS1K.
f. In the Switch Trunks Total' field, enter the number of switch ports configured on the CS1K.
g. Click **Save**.

4. The system prompts you to restart messaging after these changes have been made.
5. Continue administering the Aura Messaging servers using the *Administering the Aura Messaging Guide*.

Figure 6-3: Avaya – Telephony Integration and Networked Server Example



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7 Troubleshooting

The tools used for debugging include network sniffer applications (such as Wireshark) and AudioCodes' Syslog server application.

7.1 Configuring AudioCodes Gateway for Syslog Server

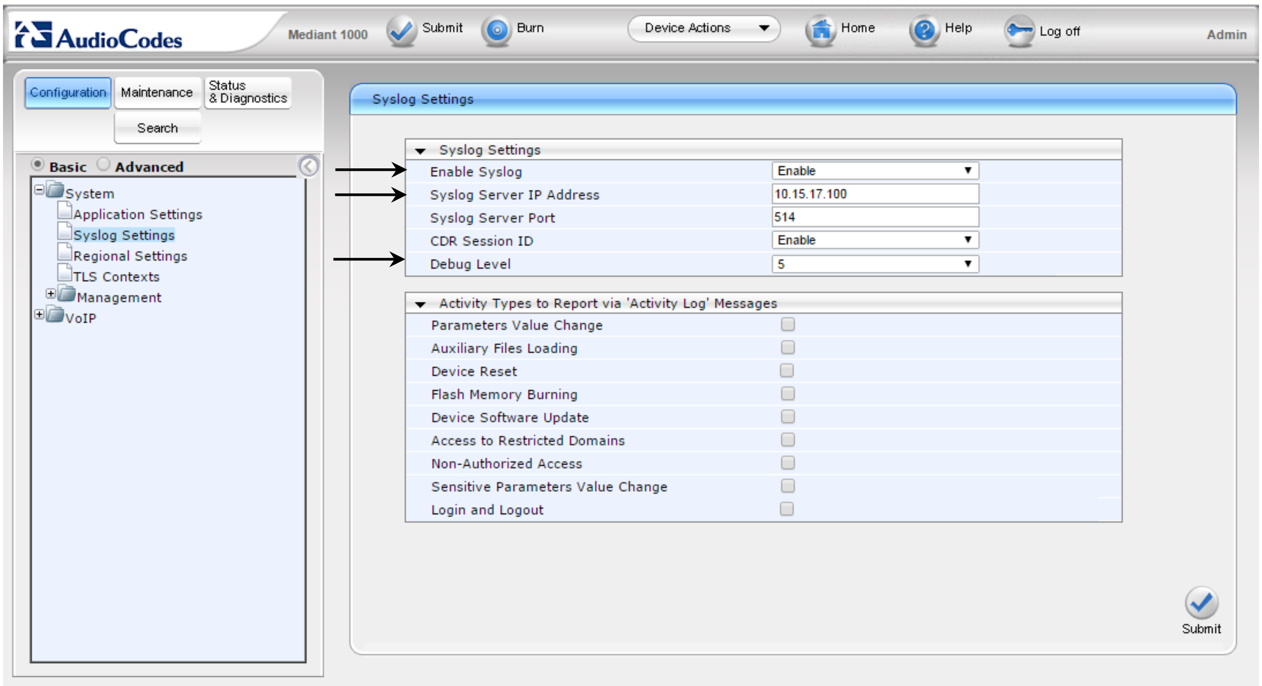
The Syslog client, embedded in the AudioCodes gateway sends error reports/events generated by the gateway application to a Syslog server, using IP/UDP protocol.

➢ **To activate the Syslog client on the AudioCodes gateways:**

1. Open the Syslog Settings page (**Configure** tab > **System** > **Syslog Settings**).
2. From the ‘Enable Syslog’ drop-down list, select **Enable**.
3. Use the parameter ‘Syslog Server IP Address’ to define the IP address of the Syslog server you use.

Note: The Syslog Server IP address must be one that corresponds with your network environment in which the Syslog server is installed (e.g., 10.15.17.100).

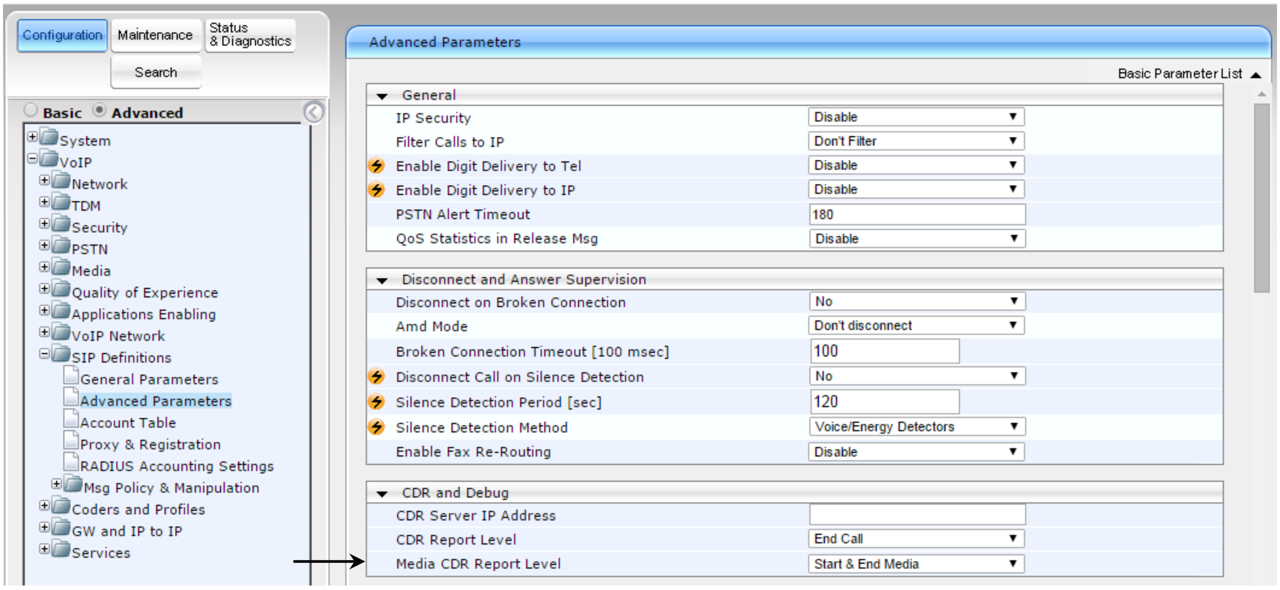
Figure 7-1: Syslog Settings



4. From the 'Debug Level' drop-down list, select **5,** to determine the Syslog logging level.

5. Open the Advanced Parameters page (**Configure** tab > **VoIP** > **SIP Definitions** > **Advanced Parameters**).
6. From the 'Media CDR Report Level' drop-down list, select **Start & End Media** to enable additional call information.

Figure 7-2: Advanced Parameters



AudioCodes has also developed the following advanced diagnostic tools for high-level troubleshooting:

- **PSTN Trace:** used for monitoring and tracing PSTN elements (E1/T1) in AudioCodes digital gateways (Mediant 1000). These utilities are designed to convert PSTN trace binary files into textual form.
- **DSP Recording:** used for monitoring the DSP operation (e.g., RTP packets and events).

A AudioCodes ini File

The *ini* configuration file of the Mediant 1000B, corresponding to the existing customer configuration, is shown below:

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

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

;Board: Mediant 1000
;HW Board Type: 47  FK Board Type: 71
;Serial Number: 8680944
;Slot Number: 1
;Software Version: 6.80A.231.002
;DSP Software Version: 620AE3=> 660.11
;Board IP Address: 130.5.175.60
;Board Subnet Mask: 255.255.255.0
;Board Default Gateway: 130.5.175.3
;Ram size: 497M   Flash size: 64M
;Num of DSP Cores: 8  Num DSP Channels: 40
;Num of physical LAN ports: 3
;Profile: NONE
;;Key features:;Board Type: Mediant 1000 ;IP Media: Conf VXML
VoicePromptAnnounc(H248.9) ;E1Trunks=8 ;T1Trunks=8 ;Channel Type:
RTP DspCh=240 IPMediaDspCh=240 ;Security: IPSEC MediaEncryption
StrongEncryption EncryptControlProtocol ;Coders: G723 G729
NETCODER GSM-FR G727 ILBC G722 ;DSP Voice features: IpmDetector
;PSTN Protocols: ISDN IUA=4 CAS ;Control Protocols: MSFT MGCP
MEGACO SIP ;Default features:;Coders: G711 G726;

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


[SYSTEM Params]
```

```
SyslogServerIP = 155.168.209.142
EnableSyslog = 1
;NTPServerIP_abs is hidden but has non-default value
NTPServerUTCOffset = -18000
ENABLEPARAMETERSMONITORING = 1
ActivityListToLog = 'pvc', 'spc'
DebugRecordingDestIP = 155.168.209.142
;VpFileLastUpdateTime is hidden but has non-default value
DebugRecordingStatus = 0
NTPServerIP = '135.203.69.232'

[BSP Params]

PCMLawSelect = 3
TDMBusClockSource = 4
EnableLANWatchdog = 0
Mediant1000DualPowerSupplySupported = 2
UdpPortSpacing = 10
EnterCpuOverloadPercent = 99
ExitCpuOverloadPercent = 95

[Analog Params]

FarEndDisconnectType = 7

[ControlProtocols Params]

AdminStateLockControl = 0

[PSTN Params]

TraceLevel = 0
ProtocolType = 23
ClockMaster = 0
TerminationSide = 1
FramingMethod = D
LineCode = 0
LineBuildOut.LOSS = 0
LineBuildOut.OVERWRITE = 0
LineBuildOut.XPM0 = 0
LineBuildOut.XPM1 = 0
LineBuildOut.XPM2 = 0
DCHConfig = 0
ISDNIBehavior = 134217728
ISDNInCallsBehavior = 69632
ISDNOutCallsBehavior = 1024
ISDNGeneralCCBehavior = 0
ISDNNFASInterfaceID = 255
NFASGroupNumber = 0
ISDNDuplicateQ931BuffMode = 0
DIGITALPORTINFO = ''
AutoClockTrunkPriority = 0
```

```
ISDNNSBehaviour2 = 0


[Voice Engine Params]

ECNLPMode = 1
BrokenConnectionEventTimeout = 100
FaxTransportMode = 0
V22ModemTransportType = 0
V23ModemTransportType = 0
V32ModemTransportType = 0
V34ModemTransportType = 0
RFC2833TxPayloadType = 127
RFC2833RxPayloadType = 127
EnableDSPIPMDetectors = 1
EnableIPMediaChannels = 1
RTPAuthenticationDisableTx = 0
RTCPEncryptionDisableTx = 0
RTPEncryptionDisableTx = 0
FarEndDisconnectSilenceMethod = 2
FarEndDisconnectSilencePeriod = 120
CallProgressTonesFilename = 'usa_tones_13.dat'

[WEB Params]

LogoWidth = '145'
HTTPSOnly = 0
HTTPSCipherString = 'RC4:EXP'
DenyAuthenticationTimer = 60
DenyAccessOnFailCount = 3
DisplayLoginInformation = 0
;WebSessionTimeout is hidden but has non-default value

[SIP Params]

MAXDIGITS = 15
TIMEBETWEENDIGITS = 4
;ISUSEFREECHANNEL is hidden but has non-default value
MEDIACHANNELS = 48
ISPROXYUSED = 0
ISREGISTERNEEDED = 0
AUTHENTICATIONMODE = 1
ROUTEMODEIP2TEL = 1
ROUTEMODETEL2IP = 1
CHANNELSELECTMODE = 2
GWDEBUGLEVEL = 5
;ISPRACKREQUIRED is hidden but has non-default value
ISDNRXOVERLAP = 0
DEFAULTNUMBER = 'serveduser'
SIPGATEWAYNAME = 'Q1NC27689GWY1.itservices.sbc.com'
PROGRESSINDICATOR2IP = -1
```

```
;SHOULDREGISTER is hidden but has non-default value
DISCONNECTONBROKENCONNECTION = 0
CDRSYSLOGSERVERIP = 0.0.0.0
ENABLEMWI = 1
PSTNALERTTIMEOUT = 180
ISFAXUSED = 1
TRUNKTRANSFERMODE = 4
VoiceMailInterface = 3
SUBSCRIPTIONMODE = 1
SIPTRANSPORTTYPE = 1
PROGRESSINDICATOR2ISDN = -1
LOCALISDNRBSOURCE = 0
ISDNTRANSFERCAPABILITY = -1
PIFORDISCONNECTMSG = -1
PLAYRBTONE2TRUNK = 0
MEDIASECURITYBEHAVIOUR = 0
ENABLEHISTORYINFO = 1
ADDPHONECONTEXTASPREFIX = 1
TRUNKPSTNALERTTIMEOUT = -1
ENABLEVMURI = 1
EmergencyNumbers = '', '', '', ''
BCHANNELNEGOTIATIONFORTRUNK = -1
DIGITALOOSBEHAVIORFORTRUNK = -1
SBCREGISTRATIONTIME = 0
SIPREROUTINGMODE = 2
RemoveCallingNameForTrunk = -1
MSLDAPPRIMARYKEY = 'telephoneNumber'
CALLREROUTINGMODE = 0
ENABLESYMMETRICMKI = 0
QSIGCALLTRANSFERREVERSEENDDESIGNATION = 1
ENERGYDETECTORCMD = 587202560
ANSWERDETECTORCMD = 10485760


[ PhysicalPortsTable ]

FORMAT PhysicalPortsTable_Index = PhysicalPortsTable_Port,
PhysicalPortsTable_Mode, PhysicalPortsTable_NativeVlan,
PhysicalPortsTable_SpeedDuplex,
PhysicalPortsTable_PortDescription,
PhysicalPortsTable_GroupMember, PhysicalPortsTable_GroupStatus;
PhysicalPortsTable 0 = "GE_0_1", 1, 1, 3, "User Port #0",
"GROUP_1", "Active";
PhysicalPortsTable 1 = "GE_0_2", 0, 1, 4, "User Port #1", "None",
"  ";

[ \PhysicalPortsTable ]


[ EtherGroupTable ]
```

```
FORMAT EtherGroupTable_Index = EtherGroupTable_Group,
EtherGroupTable_Mode, EtherGroupTable_Member1,
EtherGroupTable_Member2;
EtherGroupTable 0 = "GROUP_1", 1, "GE_0_1", "";
EtherGroupTable 1 = "GROUP_2", 0, "", "";

[ \EtherGroupTable ]


[ DeviceTable ]

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

[ \DeviceTable ]


[ InterfaceTable ]

FORMAT InterfaceTable_Index = InterfaceTable_ApplicationTypes,
InterfaceTable_InterfaceMode, InterfaceTable_IPAddress,
InterfaceTable_PrefixLength, InterfaceTable_Gateway,
InterfaceTable_VlanID, InterfaceTable_InterfaceName,
InterfaceTable_PrimaryDNSServerIPAddress,
InterfaceTable_SecondaryDNSServerIPAddress,
InterfaceTable_UnderlyingDevice;
InterfaceTable 0 = 6, 10, 130.5.175.60, 24, 130.5.175.3, 1,
"O+M+C", 135.200.124.232, 135.201.95.232, "vlan 1";

[ \InterfaceTable ]


[ DspTemplates ]

;
;  *** TABLE DspTemplates ***
; This table contains hidden elements and will not be exposed.
; This table exists on board and will be saved during restarts.
;

[ \DspTemplates ]


[ CpMediaRealm ]

FORMAT CpMediaRealm_Index = CpMediaRealm_MediaRealmName,
CpMediaRealm_IPv4IF, CpMediaRealm_IPv6IF,
CpMediaRealm_PortRangeStart, CpMediaRealm_MediaSessionLeg,
CpMediaRealm_PortRangeEnd, CpMediaRealm_IsDefault,
CpMediaRealm_QoeProfile, CpMediaRealm_BWProfile;
CpMediaRealm 0 = "DefaultRealm", "O+M+C", "", 6000, 330, 9290, 1,
"", "";
```

```
[ \CpMediaRealm ]


[ PREFIX ]

FORMAT PREFIX_Index = PREFIX_RouteName, PREFIX_DestinationPrefix,
PREFIX_DestAddress, PREFIX_SourcePrefix, PREFIX_ProfileId,
PREFIX_MeteringCode, PREFIX_DestPort, PREFIX_SrcIPGroupID,
PREFIX_DestHostPrefix, PREFIX_DestIPGroupID, PREFIX_SrcHostPrefix,
PREFIX_TransportType, PREFIX_SrcTrunkGroupID, PREFIX_DestSRD,
PREFIX_CostGroup, PREFIX_ForkingGroup, PREFIX_CallSetupRulesSetId;
PREFIX 0 = "", "*", "", "*", 0, 255, 0, -1, "", 1, "", -1, -1, -1,
"", -1, -1;
PREFIX 1 = "", "*", "", "*", 0, 255, 0, -1, "", 1, "", -1, -1, -1,
"", -1, -1;

[ \PREFIX ]


[ TrunkGroup ]

; ** NOTE: Changes were made to active configuration.
; **       The data below is different from current values.
FORMAT TrunkGroup_Index = TrunkGroup_TrunkGroupNum,
TrunkGroup_FirstTrunkId, TrunkGroup_FirstBChannel,
TrunkGroup_LastBChannel, TrunkGroup_FirstPhoneNumber,
TrunkGroup_ProfileId, TrunkGroup_LastTrunkId, TrunkGroup_Module;
TrunkGroup 0 = 1, 0, 1, 23, "7060", 0, 0, 1;

[ \TrunkGroup ]


[ NumberMapIp2Tel ]

FORMAT NumberMapIp2Tel_Index = NumberMapIp2Tel_ManipulationName,
NumberMapIp2Tel_DestinationPrefix, NumberMapIp2Tel_SourcePrefix,
NumberMapIp2Tel_SourceAddress, NumberMapIp2Tel_SrcHost,
NumberMapIp2Tel_DestHost, NumberMapIp2Tel_NumberType,
NumberMapIp2Tel_NumberPlan, NumberMapIp2Tel_RemoveFromLeft,
NumberMapIp2Tel_RemoveFromRight, NumberMapIp2Tel_LeaveFromRight,
NumberMapIp2Tel_Prefix2Add, NumberMapIp2Tel_Suffix2Add,
NumberMapIp2Tel_IsPresentationRestricted,
NumberMapIp2Tel_SrcIPGroupID;
NumberMapIp2Tel 0 = "LD OUT", "9", "*", "*", "*", "*", 0, 9, 0, 0,
255, "", "", 255, -1;
NumberMapIp2Tel 1 = "PBX ONLY", "*", "*", "*", "*", "*", 255, 255,
0, 0, 255, "", "", 255, -1;

[ \NumberMapIp2Tel ]


[ NumberMapTel2Ip ]
```

```
FORMAT NumberMapTel2Ip_Index = NumberMapTel2Ip_ManipulationName,
NumberMapTel2Ip_DestinationPrefix, NumberMapTel2Ip_SourcePrefix,
NumberMapTel2Ip_NumberType, NumberMapTel2Ip_NumberPlan,
NumberMapTel2Ip_RemoveFromLeft, NumberMapTel2Ip_RemoveFromRight,
NumberMapTel2Ip_LeaveFromRight, NumberMapTel2Ip_Prefix2Add,
NumberMapTel2Ip_Suffix2Add,
NumberMapTel2Ip_IsPresentationRestricted,
NumberMapTel2Ip_SrcTrunkGroupID, NumberMapTel2Ip_SrcIPGroupID,
NumberMapTel2Ip_DestIPGroupID;
NumberMapTel2Ip 1 = "", "*", "*", 255, 255, 0, 0, 255, "", "",
255, 1, -1, -1;

[ \NumberMapTel2Ip ]


[ SourceNumberMapIp2Tel ]

FORMAT SourceNumberMapIp2Tel_Index =
SourceNumberMapIp2Tel_ManipulationName,
SourceNumberMapIp2Tel_DestinationPrefix,
SourceNumberMapIp2Tel_SourcePrefix,
SourceNumberMapIp2Tel_SourceAddress,
SourceNumberMapIp2Tel_SrcHost, SourceNumberMapIp2Tel_DestHost,
SourceNumberMapIp2Tel_NumberType,
SourceNumberMapIp2Tel_NumberPlan,
SourceNumberMapIp2Tel_RemoveFromLeft,
SourceNumberMapIp2Tel_RemoveFromRight,
SourceNumberMapIp2Tel_LeaveFromRight,
SourceNumberMapIp2Tel_Prefix2Add,
SourceNumberMapIp2Tel_Suffix2Add,
SourceNumberMapIp2Tel_IsPresentationRestricted,
SourceNumberMapIp2Tel_SrcIPGroupID;
SourceNumberMapIp2Tel 0 = "LD OUT", "9", "*", "*", "*", "*", 255,
255, 4, 0, 255, "7045107000", "", 255, -1;
SourceNumberMapIp2Tel 1 = "PBX ONLY", "*", "*", "*", "*", "*",
255, 255, 0, 0, 255, "", "", 255, -1;

[ \SourceNumberMapIp2Tel ]


[ PstnPrefix ]

FORMAT PstnPrefix_Index = PstnPrefix_RouteName,
PstnPrefix_DestPrefix, PstnPrefix_TrunkGroupId,
PstnPrefix_SourcePrefix, PstnPrefix_SourceAddress,
PstnPrefix_ProfileId, PstnPrefix_SrcIPGroupID,
PstnPrefix_DestHostPrefix, PstnPrefix_SrcHostPrefix,
PstnPrefix_SrcSRDID, PstnPrefix_TrunkId,
PstnPrefix_CallSetupRulesSetId;
PstnPrefix 0 = "", "*", 1, "*", "", 0, -1, "*", "", "", -1, -1;

[ \PstnPrefix ]


[ Dns2Ip ]
```

```
FORMAT Dns2Ip_Index = Dns2Ip_DomainName, Dns2Ip_FirstIpAddress,
Dns2Ip_SecondIpAddress, Dns2Ip_ThirdIpAddress,
Dns2Ip_FourthIpAddress;
Dns2Ip 0 = "anonymous.invalid", 130.5.175.60, 0.0.0.0, 0.0.0.0,
0.0.0.0;
Dns2Ip 1 = "itservices.sbc.com", 130.5.175.60, 0.0.0.0, 0.0.0.0,
0.0.0.0;

[ \Dns2Ip ]


[ ProxyIp ]

; ** NOTE: Changes were made to active configuration.
; **       The data below is different from current values.
FORMAT ProxyIp_Index = ProxyIp_IpAddress, ProxyIp_TransportType,
ProxyIp_ProxySetId;
ProxyIp 1 = "130.5.175.56", 1, 1;

[ \ProxyIp ]


[ TxDtmfOption ]

FORMAT TxDtmfOption_Index = TxDtmfOption_Type;
TxDtmfOption 0 = 4;

[ \TxDtmfOption ]


[ TrunkGroupSettings ]

FORMAT TrunkGroupSettings_Index = TrunkGroupSettings_TrunkGroupId,
TrunkGroupSettings_ChannelSelectMode,
TrunkGroupSettings_RegistrationMode,
TrunkGroupSettings_GatewayName, TrunkGroupSettings_ContactUser,
TrunkGroupSettings_ServingIPGroup,
TrunkGroupSettings_MWIInterrogationType,
TrunkGroupSettings_TrunkGroupName;
TrunkGroupSettings 0 = 1, 1, 255, "", "", -1, 255, "";

[ \TrunkGroupSettings ]


[ ProxySet ]

; ** NOTE: Changes were made to active configuration.
; **       The data below is different from current values.
FORMAT ProxySet_Index = ProxySet_ProxyName,
ProxySet_EnableProxyKeepAlive, ProxySet_ProxyKeepAliveTime,
ProxySet_ProxyLoadBalancingMethod, ProxySet_IsProxyHotSwap,
ProxySet_SRD, ProxySet_ClassificationInput, ProxySet_TLSContext,
```

```
ProxySet_ProxyRedundancyMode, ProxySet_DNSResolveMethod,
ProxySet_KeepAliveFailureResp;
ProxySet 1 = "", 0, 60, 0, 0, 0, 0, "-1", -1, -1, "";

[ \ProxySet ]


[ IPGroup ]

FORMAT IPGroup_Index = IPGroup_Type, IPGroup_Description,
IPGroup_ProxySetId, IPGroup_SIPGroupName, IPGroup_ContactUser,
IPGroup_EnableSurvivability, IPGroup_ServingIPGroup,
IPGroup_SipReRoutingMode, IPGroup_AlwaysUseRouteTable,
IPGroup_RoutingMode, IPGroup_SRD, IPGroup_MediaRealm,
IPGroup_ClassifyByProxySet, IPGroup_ProfileId,
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_MediaEnhancementProfile,
IPGroup_AlwaysUseSourceAddr, IPGroup_MsgManUserDef1,
IPGroup_MsgManUserDef2;
IPGroup 1 = 0, "", 1, "", "7060", 0, -1, 1, 0, -1, 0, "", 1, 0, -
1, -1, -1, 0, 0, "", 0, -1, -1, "", "", "$1$gQ==", 0, "", "", "",
0, "", "";

[ \IPGroup ]


[ TLSContexts ]

FORMAT TLSContexts_Index = TLSContexts_Name,
TLSContexts_TLSVersion, TLSContexts_ServerCipherString,
TLSContexts_ClientCipherString, TLSContexts_OcspEnable,
TLSContexts_OcspServerPrimary, TLSContexts_OcspServerSecondary,
TLSContexts_OcspServerPort, TLSContexts_OcspDefaultResponse;
TLSContexts 0 = "default", 0, "RC4:EXP", "ALL:!ADH", 0, 0.0.0.0,
0.0.0.0, 2560, 0;

[ \TLSContexts ]


[ CodersGroup0 ]

FORMAT CodersGroup0_Index = CodersGroup0_Name, CodersGroup0_pTime,
CodersGroup0_rate, CodersGroup0_PayloadType, CodersGroup0_Sce;
CodersGroup0 0 = "g711Ulaw64k", 20, 0, -1, 0;

[ \CodersGroup0 ]


[ RoutingRuleGroups ]
```

```
FORMAT RoutingRuleGroups_Index = RoutingRuleGroups_LCREnable,
RoutingRuleGroups_LCRAverageCallLength,
RoutingRuleGroups_LCRDefaultCost;
RoutingRuleGroups 0 = 0, 0, 1;

[ \RoutingRuleGroups ]


[ LoggingFilters ]

FORMAT LoggingFilters_Index = LoggingFilters_FilterType,
LoggingFilters_Value, LoggingFilters_Syslog,
LoggingFilters_CaptureType;
LoggingFilters 1 = 2, "1", -1, 4;
LoggingFilters 2 = 2, "1", -1, 3;
LoggingFilters 3 = 12, "7060", -1, 3;
LoggingFilters 4 = 12, "917192149026", -1, 3;

[ \LoggingFilters ]


[ ResourcePriorityNetworkDomains ]

FORMAT ResourcePriorityNetworkDomains_Index =
ResourcePriorityNetworkDomains_Name,
ResourcePriorityNetworkDomains_Ip2TelInterworking;
ResourcePriorityNetworkDomains 1 = "dsn", 0;
ResourcePriorityNetworkDomains 2 = "dod", 0;
ResourcePriorityNetworkDomains 3 = "drsn", 0;
ResourcePriorityNetworkDomains 5 = "uc", 1;
ResourcePriorityNetworkDomains 7 = "cuc", 0;

[ \ResourcePriorityNetworkDomains ]
```

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