AudioCodes Professional Services - Interoperability Lab

# Swisscom SIP Trunk "Enterprise SIP" using AudioCodes Mediant™ BRI/PRI Gateway

Version 7.2







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## **Abbreviations and Terminology**

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

## **Document Revision Record**

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# **1** Introduction

This Configuration Note describes how to set up the AudioCodes Gateway for interworking between Swisscom's SIP Trunk environments.

## 1.1 Intended Audience

The document is intended for engineers, or AudioCodes and Swisscom Partners who are responsible for installing and configuring Swisscom's SIP Trunk for enabling VoIP calls using AudioCodes Gateway.



**Note:** All references to **Swisscom SIP Trunk** in this document refer to **Swisscom SIP Trunk "Enterprise SIP Standard"**.



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# **2** Component Information

## 2.1 AudioCodes Gateway Version

#### Table 2-1: AudioCodes Gateway Version

Gateway Vendor	AudioCodes
Models	<ul> <li>Mediant 500L Gateway</li> <li>Mediant 500 Gateway</li> <li>Mediant 800 Gateway</li> <li>Mediant 1000B Gateway</li> </ul>
Software Version	SIP_7.20A.104.001
Protocol	<ul><li>SIP/UDP (to the Swisscom SIP Trunk)</li><li>Euro-ISDN over BRI/PRI (to the PSTN PBX)</li></ul>
Additional Notes	None

## 2.2 Swisscom SIP Trunking Version

# Vendor/Service ProviderSwisscom (Switzerland) Ltd.SSW Model/ServiceSwisscom SIP Trunk "Enterprise SIP Standard"Software Version• E-SBC: 15.5(3)M<br/>• Core-SBC: SCZ730m2p<br/>• A2: 19.01.2ProtocolSIPAdditional NotesNone

#### Table 2-2: Swisscom Version

## 2.3 Interoperability Test Topology

The interoperability testing between AudioCodes Gateway and Swisscom SIP Trunk was done using the following topology setup:

- Enterprise ISDN PBX.
- AudioCodes Gateway is implemented to interconnect between the Enterprise PBX and the SIP Trunk using an AudioCodes Gateway.

The figure below illustrates this test topology:

#### Figure 2-1: Test Topology between ISDN PBX with Swisscom SIP Trunk



# 3 Configuring AudioCodes Media Gateway

This chapter provides step-by-step procedures on how to configure the AudioCodes Media Gateway for interworking with the Swisscom SIP Trunk. These configuration procedures are based on the test topology described in Section 2.3 on page 10, and includes the following main areas:

- Gateway IP interface Swisscom SIP Trunking environment
- Gateway ISDN interface PBX environment

This configuration is mostly done using the Gateway's embedded Web server (hereafter, referred to as *Web interface*).

#### Notes:

• For implementing Swisscom SIP Trunk based on the configuration described in this section in combination with a SIP PBX, the AudioCodes Media Gateway must be installed with the relevant SBC Software License Keys.



- For information about the License Key, contact your AudioCodes sales representative.
- The scope of this interoperability test and document does **not** cover all security aspects for connecting the SIP Trunk 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 Step 1: IP Network Interface Configuration

This step describes how to configure the device's IP network interface.

- > To configure the IP network interface:
- Open the IP Interfaces table (Setup menu > IP Network tab > Core Entities folder > IP Interfaces).
- 2. Modify the existing LAN 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
Name	LAN_IF (arbitrary descriptive name)
Ethernet Device	vlan 1
IP Address	10.15.45.110
Prefix Length	<b>16</b> (subnet mask in bits for 255.255.0.0)
Default Gateway	10.15.0.1
Primary DNS	10.15.27.1

**3.** Click **Apply**, and then **Done**.

The configured IP network interface is shown below:

#### Figure 3-1: Configured Network Interface in IP Interfaces Table

IP Inter	IP Interfaces (1)								
+ New	Edit		14 <4 Page	e 1_ of 1 ⊨> ⊨⊨ Sł	how 10 🗸 records	per page			Q
INDEX ≑	NAME	APPLICATION TYPE	INTERFACE MODE	IP ADDRESS	PREFIX LENGTH	DEFAULT GATEWAY	PRIMARY DNS	SECONDARY DNS	ETHERNET DEVICE
0	Voice	OAMP + Media + C	IPv4 Manual	10.15.45.110	16	10.15.0.1	10.15.27.1	0.0.0.0	vlan 1

## 3.2 Step 2: Configure Media Realm

This step describes how to configure Media Realms.

#### > To configure Media Realms:

- 1. Open the Media Realms table (Setup menu > Signaling & Media tab > Core Entities folder > Media Realms).
- 2. Add a Media Realm for the LAN interface. You can use the default Media Realm (Index 0), but modify it as shown below:

Parameter	Value
Index	0
Name	MR_LAN (descriptive name)
IPv4 Interface Name	Voice
Port Range Start	<b>6000</b> (represents lowest UDP port number used for media on LAN)
Number of Media Session Legs	100 (media sessions assigned with port range)

#### Figure 3-2: Configuring Media Realm

Media R	ledia Realms [MR_LAN] - x						
,							^
	GENERAL			QUALITY OF EXPERIENCE			
Ì	Index		0	QoE Profile		View	
5	Name	•	MR_LAN	Bandwidth Profile		View	
1	Topology Location		Down				
	IPv4 Interface Name	•	#0 [Voice] View				
:	Port Range Start	•	6000				
:	Number Of Media Session Legs	•	100				
	Port Range End		6999				
	Default Media Realm	٠	Yes 💙				
1							
							~
2			Cancel	APPLY			
1			curren				

## 3.3 Step 3: Configure SIP Signaling Interface

This step describes how to configure SIP Interfaces.

- To configure SIP Interfaces:
- 1. Open the SIP Interfaces table (Setup menu > Signaling & Media tab > Core Entities folder > SIP Interfaces).
- 2. Add a SIP Interface for the LAN interface. You can use the default SIP Interface (Index 0), but modify it as shown below:

Parameter	Value
Index	0
Name	<b>SI_LAN</b> (see note at the end of this section)
Network Interface	Voice
Application Type	GW
UDP Port	5060
TCP Port	5060
TLS Port	0
Media Realm	MR_LAN

#### Figure 3-3: Configuring SIP-Interface

	SRD	#0 [SRD_LAN]		
GENERAL		MEDIA		
Index	0	Media Realm •	#0 [MR_LAN]	▼ View
Name	• SI_LAN	Direct Media	Disable	~
Topology Location	Down	·		
Network Interface	• #0 [Voice] * Vie	SECURITY		
Application Type	GW	TLS Context Name	#0 [default]	• View
UDP Port	5060	TLS Mutual Authentication		
TCP Port	5060	Message Policy		▼ View
TLS Port	• 0	User Security Mode	Not Configured	
Encapsulating Protocol	No encapsulation	Enable LID. Authenticated Registration	s Not configured	
Enable TCP Keenalive	Disable		sinor comigured	· ·



**Note:** Current software releases use the string **names** of the configuration entities (e.g., SIP Interface, Proxy Sets, and IP Groups). Therefore, it is recommended to configure each configuration entity with meaningful names for easy identification.

## 3.4 Step 4: Configure Proxy Set

This step describes how to configure the Proxy Set. The Proxy Set defines the destination address (IP address or FQDN) of the IP entity server.

For the test topology, the Proxy Set needs to be configured for the Swisscom SIP Trunk The Proxy Sets will be later applying to the VoIP network by assigning them to IP Groups.

- **To configure the Proxy Set:**
- 1. Open the Proxy Sets table (Setup menu > Signaling & Media tab > Core Entities folder >Proxy Sets).
- 2. Add a Proxy Set for the Swisscom SIP Trunk as shown below:

Parameter	Value
Index	1
Name	PS_SIP-TRUNK
Gateway IPv4 SIP Interface	SI_LAN
Proxy Keep-Alive	Using Options
Proxy Keep-Alive Time [sec]	10
Redundancy Mode	Homing

#### Figure 3-4: Configuring Proxy Set for Swisscom SIP Trunk

Proxy Se	ets [PS_SIP-TRUNK]		x
2			^
		* [INC_UNC] *	)
	GENERAL	REDUNDANCY	
	Index	Redundancy Mode • Homing	
	Name	IS_SIP-TRUNK Proxy Hot Swap Disable	
	Gateway IPv4 SIP Interface	#0 [SI_LAN]   View Proxy Load Balancing Method Disable	
1	SBC IPv4 SIP Interface	view Min. Active Servers for Load Balancing	II.
	TLS Context Name	v View	
		ADVANCED	
	KEEP ALIVE	Classification Input IP Address only	
	Proxy Keep-Alive	sing OPTIONS DNS Resolve Method	
	Proxy Keep-Alive Time [sec]	0	~
		Cancel APPLY	

- 3. Select the index row of the Proxy Set that you added, and then click the **Proxy** Address link located below the table; the Proxy Address table opens.
- 4. Click New.

# 

5. Configure the address of the Proxy Set according to the parameters described in the table below.

Parameter	Value	
Index	0	
Proxy Address	10.254.150.52:5060	
Transport Type	ТСР	
Parameter	Value	
Index	1	
Proxy Address	10.254.150.52:5060	

c. Click Apply.

## 3.5 Step 5: Configure Coders

The procedure below describes how to configure coders to ensure that Voice and FAX are negotiated with the Swisscom SIP Trunk while use the coders in specific order.

- **To set coders for the Swisscom SIP Trunk:**
- 1. Open the Coder Groups table (Setup menu > Signaling & Media tab > Coders & Profiles folder > Coder Groups).
- 2. Configure a Coder Group for Swisscom:

Coder Name	Payload Type
G.711A-law	8
G.729	18
Т.38	N/A

#### Figure 3-5: Configuring Coders for Swisscom SIP Trunk

Coder Groups										
	(	Coder Group	Name 0 : .	AudioCode	ersGroups	5_0 ✔ Delete Grou	p			
Coder Name	2	Packetiza	ition Time	Ra	ite	Payload Type	Silence Suppressio	n	Coder Specific	
G.711A-law	~	20	~	64	~	8	Disabled N	·		
G.729	~	20	~	8	~	18	Disabled	/		1
T.38	~	N/A	~	N/A	~	N/A	N/A N	/		
										-

## 3.6 Step 6: Configure IP Profile

This step describes how to configure the IP Profile. The IP Profile defines a set of call capabilities relating to signaling and media.

In this interoperability test topology, the IP Profile needs to be configured for the Swisscom SIP trunk IP entity:

- > To configure the IP Profile for the Swisscom SIP trunk:
- 1. Open the IP Profiles table (Setup menu > Signaling & Media tab > Coders & Profiles folder > IP Profiles).
- 2. Click **New**, and then configure the parameters as follows:

Parameter	Value
General	
Index	1
Name	IPP_SIP-TRUNK
Media Security	
Gateway Media Security Mode	Disable
GATEWAY	
Early Media	Enable
Early 183	Enable
Coders Group	AudioCodersGroups_0
GATEWAY DTMF	
Is DTMF Used	Enable
GATEWAY FAX AND MODEM	
Fax Signaling Method	No Fax

#### Figure 3-6: Configuring IP Profile for Skype for Business Server 2015

GENERAL			SBC SIGNALING		
Index	1		PRACK Mode	Transparent	$\sim$
Name	IPP_SIP-TRUNK		P-Asserted-Identity Header Mode	As Is	$\checkmark$
Created by Routing Server	No		Diversion Header Mode	As Is	$\checkmark$
			History-Info Header Mode	As Is	$\checkmark$
MEDIA SECURITY			Session Expires Mode	Transparent	$\checkmark$
SBC Media Security Mode	As Is	$\checkmark$	Remote Update Support	Supported	$\checkmark$
Gateway Media Security Mode	• Disable	~	Remote re-INVITE	Supported	~
Symmetric MKI	Disable	~	Remote Delayed Offer Support	Supported	$\sim$
MKI Size	0		Remote Representation Mode	According to Operation Mode	$\sim$
SBC Enforce MKI Size	Don't enforce	~	Keep Incoming Via Headers	According to Operation Mode	$\sim$
SBC Media Security Method	SDES	~	Keep Incoming Routing Headers	According to Operation Mode	$\sim$
n			Keep User-Agent Header	According to Operation Mode	$\sim$

## 3.7 Step 7: Configure IP Group

This step describes how to configure the IP Group. The IP Group represents an IP entity on the network with which the Gateway 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). For servers, the IP Group is typically used to define the server's IP address by associating it with a Proxy Set. In this test topology, IP Group is configured for the Swisscom SIP Trunk.

#### **To configure the IP Group:**

- 1. Open the IP Groups table (Setup menu > Signaling & Media tab > Core Entities folder > IP Groups).
- 2. Add an IP Group for the Swisscom SIP Trunk as shown below:

Parameter	Value
Index	1
Туре	Server
Description	IPG_SIP-TRUNK (arbitrary descriptive name)
Proxy Set ID	PS_SIP-TRUNK
IP Profile	IPP_SIP-TRUNK
Media Realm Name	MR_LAN
SIP Group Name	10.254.150.52

#### Figure 3-7: Configuring IP Group for Swisscom

P Groups [IPG_SIP-TRUNK]				– x
	SRD #	0 [SRD_LAN]		,
GENERAL		QUALITY OF EXPERIENCE		
Index	1	QoE Profile	• View	- 1
Name	IPG_SIP-TRUNK	Bandwidth Profile	• View	
Topology Location	Down			
Туре	Server 🗸	MESSAGE MANIPULATION		
Proxy Set •	₩1 [PS_SIP-TRUNK] ▼ View	Inbound Message Manipulation Set	-1	
IP Profile •	₩1 [IPP_SIP-TRUNK] ▼ View	Outbound Message Manipulation Se	et -1	
Media Realm •	• #0 [MR_LAN] • View	Message Manipulation User-Defined	String 1	
Contact User		Message Manipulation User-Defined	String 2	
SIP Group Name •	10.254.150.52			
Created By Routing Server	No			Ť
	Cance	APPLY		

## 3.8 Step 8: Configure PSTN Trunk Settings

This step describes how to configure PSTN trunk settings for BRI and PRI PSTN interfaces.

## 3.8.1 Step 8a: Configure the BRI PSTN Interface

This step describes how to configure the BRI PSTN Interface. Skip to the next step if you have a PRI interface.

To configure the BRI PSTN interface:

- 1. Open the Trunk Settings page (Setup menu > Signaling & Media tab > Gateway folder > Trunks & Groups > Trunks).
- 2. Configure following parameters:

Parameter	Value
Protocol Type	BRI EURO ISDN
ISDN Termination Side	Network side (for BRI PBX connection)
BRI Layer2 Mode	Point To Point
Q931 Layer Response Behavior	0x8000000
Outgoing Calls Behavior	0x402
Incoming Calls Behavior	0x80011000
Local ISDN Ringback Tone Source	Gateway
ISDN Transfer Capabilities	Audio 3.1
Select Receiving of Overlap Dialing	Local Receiving
Play Ringback Tone to Trunk	Play Local Until Remote Media Arrive
Call Rerouting Mode	ISDN Rerouting Enabled



Trunk Settings		4			
GENERAL			ADVANCED SETTINGS		
Module ID Trunk ID	1 2		PSTN Alert Timeout Local ISDN Ringback Tone Source	-1 Gateway	~
Trunk Configuration State Protocol Type	Active BRI EURO ISDN	$\checkmark$	Set Pl in Rx Disconnect Message	Not Configured	~
			ISDN Transfer Capabilities	Audio 3.1	~ ~
BRI CONFIGURATION	0		Select Receiving of Overlap Dialing	Local Receiving	$\sim$
Trace Level	No Trace	$\checkmark$	B-channel Negotiation Out-Of-Service Behavior	Not Configured	<ul><li>✓</li></ul>
ISDN Termination Side	Network side	$\checkmark$	Remove Calling Name	Use Global Parameter	~
Q931 Layer Response Behavior	0x8000000		Play Ringback Tone to Trunk	Play Local Until Remote M	le 🗸
Outgoing Calls Behavior	0x402		Call Rerouting Mode	ISDN Rerouting Enabled	
Incoming Calls Behavior General Call Control Behavior	0x80011000 0x0		Trunk Name		
ISDN NS Behaviour 2	0x0				
Submit Stop Trunk					

#### Figure 3-8: Configuring BRI PSTN Interface

3. Repeat for all BRI ports available on the device.

## 3.8.2 Step 8b: Configure the PRI PSTN Interface

This step describes how to configure the PRI PSTN Interface.

#### To configure the PRI PSTN interface:

- 1. Open the Trunk Settings page (Setup menu > Signaling & Media tab > Gateway folder > Trunks & Groups > Trunks).
- **2.** Configure following parameters:

Parameter	Value
Protocol Type	E1 EURO ISDN
Clock Master	Generated
Line Code	HDB3
Framing Method	E1 Framing MFF CRC4 Ext
ISDN Termination Side	Network side
Outgoing Calls Behavior	0x402
Incoming Calls Behavior	0x80011000
Transfer Mode	ECT
Local ISDN Ringback Tone Source	Gateway
ISDN Transfer Capabilities	Audio 3.1
Select Receiving of Overlap Dialing	Local Receiving
Play Ringback Tone to Trunk	Play Local Until Remote Media Arrive
B-channel Negotiation	Preferred
Call Rerouting Mode	ISDN Rerouting Enabled



ENERAL		ADVANCED SETTINGS		
Nodule ID	1	PSTN Alert Timeout	-1	
runk ID	1 Active	Transfer Mode	Disable	~
Protocol Type	E1 EURO ISDN	<ul> <li>Local ISDN Ringback Tone Source</li> </ul>	PBX	~
		Set PI in Rx Disconnect Message	Not Configured	~
RUNK CONFIGURATION		ISDN Transfer Capabilities	Not Configured	~
lock Master	Generated	Progress Indicator to ISDN	Not Configured	~
uto Clock Trunk Priority	0	Select Receiving of Overlap Dialing	None	$\checkmark$
ine Code	HDB3	B-channel Negotiation	Not Configured	~
ine Build Out Loss	0 dB	Out-Of-Service Behavior	Not Configured	$\checkmark$
race Level	No Trace	Remove Calling Name	Use Global Parameter	~
ine Build Out Overwrite	OFF	Play Ringback Tone to Trunk	Not Configured	~
raming Method	E1 FRAMING MFF CRC4 EX	Call Rerouting Mode	None	~
		ISDN Duplicate Q931 BuffMode	0	
DN CONFIGURATION		Trunk Name		
DN Termination Side	Network side	~		

#### Figure 3-9: Configuring PRI PSTN Interface

3. Repeat for all PRI ports available on the device.

## 3.8.3 Step 8c: Configure the TDM Bus

This step describes how to configure the Gateway's TDM bus.

#### To configure the TDM bus:

- 1. Open the TDM Bus Settings page (Setup menu > Signaling & Media tab > Gateway folder > TDM Bus Settings).
- 2. Configure the TDM bus parameters per your deployment requirements. Below is an example:

Parameter	Value
TDM Bus Clock Source	Internal
PCM Law Select	ALaw

TDM Bus Settings		
GENERAL		
TDM Bus Clock Source	Internal	<b>~</b> <del>5</del>
TDM Bus PSTN Auto FallBack Clock	Disable	∽ ≯
TDM Bus PSTN Auto Clock Reverting	Disable	∽ ≯
TDM Bus Local Reference	1	
DIGITAL PCM		
PCM Law Select	• ALaw	✓ ≯
Idle PCM Pattern	213	4
Idle ABCD Pattern	0×0F	∽ ≯

#### Figure 3-10: TDM Bus Settings Page

## 3.9 Step 9: Configure Trunk Group Parameters

This step describes how to configure the device's channels, which includes assigning them to Trunk Groups. A Trunk Group is a logical group of physical trunks and channels. A Trunk Group can include multiple trunks and ranges of channels. To enable and activate the device's channels, Trunk Groups must be configured. Channels not configured in this table are disabled. After configuring Trunk Groups, use them to route incoming IP calls to the Tel side, represented by a specific Trunk Group (ID). You can also use Trunk Groups for routing Tel calls to the IP side.

#### 3.9.1 Step 9a: Configure the BRI Trunk Group

This step describes how to configure the BRI Trunk Group. Skip to the next step if you have a PRI interface.

- > To configure the BRI Trunk Group Table:
- 1. Open the Trunk Group Table page (Setup menu > Signaling & Media tab > Gateway folder > Trunks & Groups > Trunk Groups).
- Configure each Trunk Group as required. If more than one BRI port is available, on line 1 of the table above, set "To Trunk" to the last BRI port to be used for incoming / outgoing calls between Swisscom and the PBX.

#### Figure 3-11: Configuring BRI Trunk Group Table

Tru	unk Grou	p Table			Add Phone (	ontext As Prefix		Disable	~	
					Trunk Group	Index		1-12	~	
Gr	roup Index	Module		From Trunk	To Trunk	Channels	Phone Nur	nber	Trunk Group ID	Tel Profile Name
	1	Module 1 BRI	~	1 🗸	1 🗸	1-2	A1000		1	None 🗸

## 3.9.2 Step 9b: Configure the PRI Trunk Group

This section shows how to configure the PRI Trunk Group.

#### To configure the PRI Trunk Group Table:

- Open the Trunk Group Table page (Setup menu > Signaling & Media tab > Gateway folder > Trunks & Groups > Trunk Groups).
- 2. Configure each Trunk Group as required. If more than one PRI port is available, on line 1 of the table above, set "To Trunk" to the last PRI port to be used for incoming / outgoing calls between Swisscom and the PBX.

#### Figure 3-12: Configuring PRI Trunk Group Table

Trunk Grou	p Table	Add Pho Trunk G	ne Context As Prefix roup Index	Disable 1-12	× ×	
Group Index	Module	From Trunk To Tru	nk Channels	Phone Number	Trunk Group ID	Tel Profile Name
1	Module 1 PRI	✓ 1 ✓ 1 Ň	1-31	A1000	1	None 🗸

## 3.9.3 Step 9c: Configure Trunk Group Settings

The Trunk Group Settings page allows you to configure the following per trunk group:

- Channel Select Mode by which IP-to-Tel calls are assigned to the Trunk Group's channels
- > To configure the Trunk Group Settings:
- 1. Open the Trunk Group Table page (Setup menu > Signaling & Media tab > Gateway folder > Trunks & Groups > Trunk Group Settings).
- 2. Click New.
- **3.** Configure the following parameters:

Parameter	Value
Trunk Group ID	1
Channel Select Mode	Channel Cyclic Ascending

#### Figure 3-13: Configuring Trunk Group Settings

Trunk G	roup Settings	
	GENERAL	
	Index	0
	Name	
	Trunk Group ID	1
	Channel Select Mode	Channel Cyclic Ascending

## 3.10 Step 10: Configure Routing Rules

This step describes how to configure IP-to-Tel and Tel-to-IP call routing rules. These rules define the routes for forwarding SIP messages (e.g., INVITE) received from one IP entity to the Trunk Group and vice versa.

## 3.10.1 Step 10a: Configure Tel-to-IP Routing

This step describes how to configure the Mediant BRI/PRI Gateway Tel-to-IP Routing, whereby all calls from the Trunk Group 1 (i.e., PSTN) are routed to the Swisscom SIP Trunk.

- **To configure Tel-to-IP or Outbound IP Routing Rules:**
- Open the Outbound IP Routing Table page (Setup menu > Signaling & Media tab > Gateway folder > Routing > Tel -> IP Routing).
- 2. Click New.
- 3. Configure a rule for all incoming IP calls. Route them to 'Destination IP Group' IPG\_SIP-TRUNK (connected to the Swisscom).
- 4. Click Apply.

#### Figure 3-14: Configured Tel-to-IP Routing Rules

Tel-to-	Tel-to-IP Routing (1)											
+ New	Edit Insert 🛧 🖡	Î	🛯 🛹 Page 1	of 1 🕨 🖬 Sł	now 10 🗸 records	per page			Q			
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	PBX-to-SIP-Trunk	-1	*	*	IPG_SIP-TRUNK			-1	Not Available			

## 3.10.2 Step 10b: Configure IP-to-Tel Routing

This step describes how to configure Mediant BRI/PRI Gateway IP-to-Tel Routing, whereby all calls from the Swisscom SIP Trunk are routed to Trunk Group 1.

- > To configure IP-to-Tel or Inbound IP Routing Rules:
- Open the Inbound IP Routing Table page (Setup menu > Signaling & Media tab > Gateway folder > Routing > IP -> Tel Routing).
- 2. Click New.
- **3.** Configure a rule for all incoming IP calls, with any destination prefix assigned and route them to 'Trunk Group ID' **1** (connected to the PBX).
- 4. Click Apply.

#### Figure 3-15: Configured IP-to-Tel Routing Rules

IP-to-Tel	Routing (1)							^
+ New E	dit Insert 🛧 🖡 🗍 💼	tet i et P	age 🔟 of 1 🔛 ы S	how 10 🗸 records per	page		Q	
INDEX ≑	NAME	SOURCE IP GROUP	SOURCE SIP INTERFACE	SOURCE IP ADDRESS	SOURCE PHONE PREFIX	DESTINATION PHONE PREFIX	TRUNK GROUP ID	
0	SIP-Trunk-to-PBX		Any			*	1	

## 3.10.3 Step 10c: Configure Routing settings

This section identifies the device configuration needed in the Routing settings

- To configure Routing settings:
- 1. Open the Routing settings page (Setup menu > Signaling & Media tab > Gateway folder > Routing > Routing Settings).
- 2. From the 'Tel to IP Routing Mode' drop-down list, select Route calls after manipulation.
- 3. Click Apply.

Ro	uting settings				
	GENERAL				
	Tel To IP Routing Mode	•	Route calls after manipulatic 🗸		
	IP-to-Tel Routing Mode		Route calls before manipula	~	
	Source IP Address Input		Not Configure	~	
	Use Tgrp information		Disable	~	
	3xx Use Alt Route Reasons		No	~	
	Tel-to-IP Call Forking Mode		Disable	~	
	Forking Delay Time For Invite (s)		0		
	IP-to-Tel Remove Routing Table Prefix		Disable	~	
	Gateway Routing Server		Disable	~	

#### Figure 3-16: Routing settings Page

## 3.11 Step 11: Configure Normalization Rules for E.164 Format for PBX/PSTN Connectivity

Swisscom implements the standard E.164 format, while the PBX or PSTN implements other number formats for dialing. If the Gateway is connected to a PBX or directly to the PSTN, it may need to perform number manipulations for the called and/or calling number to match the PBX or PSTN dialing rules or to match Swisscom E.164 format.

The Gateway entity must therefore be configured with manipulation rules to translate (i.e., normalize) numbers dialed in standard E.164 format to various formats, and vice versa. Manipulation must be performed for outbound calls and inbound calls.

Number manipulation rules are configured in the following Manipulation Tables:

#### For Tel-to-IP calls:

- Destination Phone Number Manipulation Table for Tel-to-IP Calls
- Source Phone Number Manipulation Table for Tel-to-IP Calls

#### For IP-to-Tel calls:

- Destination Phone Number Manipulation Table for IP-to-Tel Calls
- Source Phone Number Manipulation Table for IP-to-Tel Calls

#### To configure number manipulation rules:

- Open the required Number Manipulation page (Setup menu > Signaling & Media tab > Gateway folder > Manipulations > Dest Number IP->Tel or Dest Number Tel->IP or Source Number IP->Tel or Source Number Tel->IP); the relevant Manipulation table page is displayed.
- 2. Click the **New** button; the following screen is displayed:

Figure 3-17: Example Dest Number IP->Tel Number Manipulation Rule

Destinat	tion Phone Number Manipulation	for IP-to-Tel Calls			- x
					^
	GENERAL		ACTION		
	Index	0	Stripped Digits From Left	0	
	Name		Stripped Digits From Right	0	
			Number of Digits to Leave	255	
	MATCH		Prefix to Add		
	Source IP Address	*	Suffix to Add		
	Source Prefix	*	TON	~	
	Source Host Prefix	*	NPI	$\checkmark$	
	Destination Prefix	*	Presentation	$\checkmark$	
	Destination Host Prefix	*			
	Source IP Group	Any 👻 View			
		Cano	el APPLY		

- 3. Configure the matching characteristics.
- 4. Configure the manipulation actions.
- 5. Click Apply to submit your changes.

#### 3.11.1 Number Manipulation Examples

Two examples are provided below for number manipulation.

#### 3.11.1.1 Number Manipulation IP to Tel Example

The example below shows a manipulation rule that removes "+41" from the destination number when the destination number prefix "+41".

Figure 3-18: Destination Number Manipulation Rule for IP→Tel Calls

GENERAL			ACTION		
Index	0		Stripped Digits From Left	• 3	
Name	Dst-In-National		Stripped Digits From Right	0	
			Number of Digits to Leave	255	
MATCH			Prefix to Add	• 0	
Source IP Address	*		Suffix to Add		
Source Prefix	*		TON		~
Source Host Prefix	*		NPI		~
Destination Prefix	e +41		Presentation		~
Destination Host Prefix	*				
Source IP Group	Any	▼ View			

#### 3.11.1.2 Number Manipulation Tel to IP Example

The example below shows a National manipulation rule that removes the "0" prefix and adds "+41" to the destination number, when the destination number prefix is "0[1-9]".

Figure 3-19: Destination Number Manipulation Rule for Tel→IP Calls

GENERAL		ACTION					
Index	1	Stripped Digits From Left • 1					
Name	Dst-Out-National	Stripped Digits From Right 0					
		Number of Digits to Leave 255					
MATCH		Prefix to Add • +41					
Source Trunk Group	-1	Suffix to Add					
Source Prefix	*	TON	$\checkmark$				
Destination Prefix	• 0[1-9]	NPI	$\checkmark$				
Destination IP Group	Any v	Presentation	$\checkmark$				
Cancel APPLY							



**Note:** Adapt the Manipulation Table according to your environment's dial plan.

## 3.12 Step 12: Configure Message Manipulation Rules

This step describes how to configure SIP message manipulation rules. SIP message manipulation rules can include insertion, removal, and/or modification of SIP headers. Manipulation rules are grouped into Manipulation Sets, enabling you to apply multiple rules to the same SIP message (IP entity).

Once you have configured the SIP message manipulation rules, you need to assign them to the GW and determine whether they are applied to inbound or outbound messages.

#### **To configure SIP message manipulation rule:**

- 1. Open the Message Manipulations page (Setup menu > Signaling & Media tab > Message Manipulation folder > Message Manipulations).
- 2. Configure new manipulation rules (Manipulation Set 1) for Swisscom SIP Trunk according to the table below:

		Specific Configuration							
Index	Name	Set ID	Message Type	Condition	Action Subject	Action Type	Action Value		
0	Options Request-URI	1	options.request		header.request- uri.url.host	Modify	param.message.add ress.dst.address		
1	Set Contact- User to Anonymous	1	invite.request	header.privacy regex (id)	header.contact.url.user	Modify	'anonymous'		
2	Edit Diversion- Header	1	invite.request	header.diversion exists AND header.diversion regex ( <tel:)(.*)(>.*)</tel:)(.*)(>	header.diversion	Modify	' <sip:'+\$2+'@'+head er.contact.url.host+\$ 3</sip:'+\$2+'@'+head 		
3	Edit PAI if anonymous	1	invite.request	header.diversion exists AND header.diversion regex ( <sip:)(.*)(@.*) and<br="">header.privacy=='id'</sip:)(.*)(@.*)>	header.p-asserted- identity	Modify	' <sip:'+\$2+'@'+head er.contact.url.host+' &gt;'</sip:'+\$2+'@'+head 		
4	Remove T.38 from SDP	1	invite.request	body.sdp regex (.*)(m=image)(.*)	body.sdp	Modify	\$1		

#### Figure 3-20: Configured SIP Message Manipulation Rules

Message Manipulations (5)										
+ New     Edit     Insert     ↑     ↓     m     i     i     m       • New     Edit     Insert     ↑     ↓     Page     □     of 1     ▷     ▷     records per page										
INDEX 🗢	NAME	MANIPULATION SET ID	MESSAGE TYPE	CONDITION	ACTION SUBJECT	ACTION TYPE	ACTION VALUE	ROW ROLE		
0	Options Request-UR	1	OPTIONS.request		header.request-uri.u	Modify	param.message.add	Use Current Conditio		
1	Set Contact-User to i	1	invite.request	header.privacy rege	header.contact.url.u	Modify	'anonymous'	Use Current Conditio		
2	Edit Diversion-Heade	1	invite.request	header.diversion exi	header.diversion	Modify	' <sip:'+\$2+'@'+heade< th=""><th>Use Current Conditio</th></sip:'+\$2+'@'+heade<>	Use Current Conditio		
3	Edit PAI if anonymou	1	invite.request	header.diversion exi	header.p-asserted-ic	Modify	' <sip:'+\$2+'@'+heade< th=""><th>Use Current Conditio</th></sip:'+\$2+'@'+heade<>	Use Current Conditio		
4	Remove T.38 from S	1	invite.request	body.sdp regex (.*)(r	body.sdp	Modify	\$1	Use Current Conditio		

- 3. Assign Manipulation Set ID 1 to the GW outbound messages:
  - a. Open the Admin page.
  - **b.** Append the case-sensitive suffix 'AdminPage' to the device's IP address in your Web browser's URL field (e.g., http://10.15.45.110/AdminPage).
  - c. In the left pane of the page that opens, click *ini* Parameters.
  - d. In the 'Parameter Name' Enter **GWOUTBOUNDMANIPULATIONSET** and in the 'Enter Value' enter **1**.
  - e. Click Apply New Value.

#### Figure 3-21: Assigning Manipulation Set 1 to the GWOUTBOUNDMANIPULATIONSET

Image Load to Device	Parameter Name: GWOUTBOUNDMANIPULATIONSET	Enter Value:	pply New Value
<i>ini</i> Parameters Back to		Output Window	
Main	Parameter Name: GWOUTBOUNDM/ Parameter New Value: 1 Parameter Description:Outbou applies for all outgoing INV	ANIPULATIONSET and manipulation set ID for GW - If configure /ITE requests.	i, ^

## 3.13 Step 13: Configure Miscellaneous Settings

This step describes miscellaneous Gateway configuration

## 3.13.1 Step 13a: Configure Session-Expires

This step describes how to configure Gateway Session-Expires times.

- Open the Gateway General Settings page (Setup menu > Signaling & Media tab > SIP Definitions folder > SIP Definitions General Settings).
- 2. From the 'Session-Expires' set it to 1800.
- 3. From the 'Minimum Session-Expires' set it to 360.
- 4. Click Apply.

#### Figure 3-22: General Settings Page

GATEWAY SESSION EXPIRES	
Session-Expires Time	• 1800
Minimum Session-Expires	• 360
Session Expires Method	re-INVITE
Session Expires Disconnect Time	32

## 3.13.2 Step 13b: Configure Asserted Identity Mode

- 1. Open the Message Structure page (Setup menu > Signaling & Media tab > SIP Definitions folder > Message Structure).
- 2. From the 'Asserted Identity Mode' dropdown, select Add P-Asserted-Identity.
- 3. Click Apply.

#### Figure 3-23: Message Structure Page

GATEWAY SETTINGS				
Enable Remote Party ID	Disable	~		
Enable P-Associated-URI Header	Disable	$\checkmark$		
Subject				
Enable History-Info Header	Disable	~		
Enable Contact Restriction	Disable	$\checkmark$		
User-Agent Information				
Transferred Prefix IP-to-Tel				
X-Channel Header	Disable	$\checkmark$		
Asserted Identity Mode •	Add P-Asserted-Identity	$\checkmark$		
Enable P-Charging Vector	Disable	$\checkmark$		
User To User Network ID	0			

#### 3.13.3 Step 13c: Configure Gateway General Settings

This step identifies the device configuration needed in the Gateway General Settings configuration.

To configure the Gateway General Settings:

- Open the SIP Proxy & Registration Parameters page (Setup menu > Signaling & Media tab > Gateway folder > Gateway General Settings).
- 2. From the 'Fax Signaling Method' drop-down list, select Fax Fallback.
- 3. Click Apply.

Figure 3-24:	Gateway	General	Settings	Page
--------------	---------	---------	----------	------

Gatewa	y General Settings		
FAX			
Fax Si	gnaling Method	Fax Fallback	~
Detec	t Fax on Answer Tone	Initiate T.38 on Preamble	~
SIP T.	38 Version	Not Configured	~
T.38 F	ax Session	Disable	~
T.38 F	ax Max Buffer	3000	

#### 3.13.4 Step 13d: Configure DTMF & Dialing

This step identifies the device configuration needed in the DTMF & Dialing configuration.

To configure the DTMF & Dialing parameters:

- Open the SIP DTMF & Dialing page (Setup menu > Signaling & Media tab > Gateway folder > DTMF and Supplementary > DTMF & Dialing).
- 2. From the 'RFC 2833 Payload Type' set it to 101.
- 3. Click Apply.

DTMF & Dialing				
GENERAL				
Max Digits In Phone Num	30			
Inter Digit Timeout for Overlap Dialing [sec]	4			
Declare RFC 2833 in SDP	Yes			
1st Tx DTMF Option	~			
2nd Tx DTMF Option	~			
RFC 2833 Payload Type	101			
Default Destination Number	1000			

## 3.13.5 Step 13e: Configure Fax Parameters

This step identifies the device configuration needed in the Fax configuration.

- > To configure the Fax parameters:
- 1. Open the Fax/Modem/CID Settings page (Setup menu > Signaling & Media tab > Media folder > Fax/Modem/CID Settings).
- 2. From the 'Fax Transport Mode' drop-down list, select **Disable**.
- 3. From the 'V.22 Modem Transport Type' drop-down list, select **Disable**.
- 4. From the 'V.23 Modem Transport Type' drop-down list, select **Disable**.
- 5. From the 'V.32 Modem Transport Type' drop-down list, select **Disable**.
- 6. From the 'V.34 Modem Transport Type' drop-down list, select **Disable**.
- 7. Click Apply.

Fax/Modem/CID Settings	
GENERAL	
Fax Transport Mode	• Disable
T.38 Version	T.38 version 0
Caller ID Transport Type	Mute 🗸
Caller ID Type	Standard Bellcore
V.21 Modem Transport Type	Disable 🗸
V.22 Modem Transport Type	• Disable
V.23 Modem Transport Type	• Disable
V.32 Modem Transport Type	• Disable
V.34 Modem Transport Type	• Disable
Fax CNG Mode	Doesn't send T.38 re-INVITE
CNG Detector Mode	Disable 🗸
CED Transfer Mode	Fax Relay or VBD

#### Figure 3-26: Fax Settings Page

## 3.13.6 Step 13f: Configure Parameters using the AdminPage

This step describes how to configure additional Gateway parameters needed via the AdminPage.

- > To configure Parameters using the AdminPage:
- 1. Open the Admin page.
- 2. Append the case-sensitive suffix 'AdminPage' to the device's IP address in your Web browser's URL field (e.g., <u>http://10.15.45.110/AdminPage</u>).
- 3. In the left pane of the page that opens, click *ini* Parameters.
- 4. Enter these values in the 'Parameter Name' and 'Enter Value' fields:

Parameter	Value	Parameter description
SendLocalTimeToISDNConnect	2	The device always sends its local date and time (obtained from its internal clock) in Connect messages.
TransparentCoderOnDataCall	1	If the transfer capability of a call from ISDN is "data", open with the transparent coder.

5. Click the Apply New Value button for each parameter.

#### Figure 3-27: Configuring a Parameter in AdminPage

Image Load to Device	Parameter Name:     Enter Value:     2     Apply New Value       SENDLOCALTIMETOISDNCONNECT     Apply New Value     Apply New Value
<i>ini</i> Parameters Back to	Output Window
Main	Parameter Name: SENDLOCALTIMETOISDNCONNECT Parameter New Value: 2 Parameter Description:0 - Don't Send Local Date and Time,1 - Send Local Date and Time Only If Missing,2 - Always Send Local Date and Time

## 3.14 **Step 14: Reset the Gateway**

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

- To save the configuration to flash memory:
- 1. Open the Maintenance Actions page (Setup menu > Administration tab > Maintenance folder > Maintenance Actions).

Figure 3-28: Resetting the Gateway

Maintenance Actions			
RESET DEVICE			
Reset Device	Reset		
Save To Flash	Yes		
Graceful Option	No		

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

## A AudioCodes INI File

The *ini* configuration file of the Gateway with BRI, corresponding to the Web-based configuration as described in Section 3 on page 11, is shown below:



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

```
**********
;** Ini File **
; * * * * * * * * * * * * * *
;Board: M800
;HW Board Type: 69 FK Board Type: 72
;Serial Number: 3161551
;Slot Number: 1
;Software Version: 7.20A.104.001
;DSP Software Version: 5014AE3_R => 721.09
;Board IP Address: 10.15.45.110
;Board Subnet Mask: 255.255.0.0
;Board Default Gateway: 10.15.0.1
;Ram size: 512M Flash size: 64M Core speed: 300Mhz
;Num of DSP Cores: 1 Num DSP Channels: 30
;Num of physical LAN ports: 12
;Profile: NONE
;;;Key features:;Board Type: M800 ;ElTrunks=2 ;TlTrunks=2 ;BRITrunks=8
;Security: IPSEC MediaEncryption StrongEncryption EncryptControlProtocol
;Channel Type: RTP DspCh=30 IPMediaDspCh=30 ;DATA features: ;QOE
features: VoiceQualityMonitoring MediaEnhancement ;DSP Voice features:
IpmDetector RTCP-XR ; IP Media: VXML ; Coders: G723 G729 G728 NETCODER GSM-
FR GSM-EFR AMR EVRC-QCELP G727 ILBC EVRC-B AMR-WB G722 EG711 MS_RTA_NB
MS_RTA_WB SILK_NB SILK_WB SPEEX_NB SPEEX_WB OPUS_NB OPUS_WB ;Control
Protocols: MGCP SIP TPNCP CLI FEU=10 TestCall=10 EMS ;Default
features:;Coders: G711 G726;
;----- HW components-----
;
; Slot # : Module type : # of ports
;------
                        _____
     1 : BRI
                   : 4
;
      2 : Empty
;
;
     3 : Empty
;----- HW components -----
;
; Slot # : Module type : # of ports : # of DSPs
;-----
    1 : FALC56 : 1 :
2 : BRT : 4 :
;
                                        2
     2 : BRI
                   :
                              4 :
;
                                         2
     3 : Empty
;
     4 : Empty
;
      5 : Empty
;
     6 : Empty
;
;-----
```

```
[SYSTEM Params]
SyslogServerIP = 10.254.100.51
EnableSyslog = 1
;IniFileLastUpdateTime is hidden but has non-default value
;IniFileTemplateLastUpdateTime is hidden but has non-default value
;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 = 1
UdpPortSpacing = 10
EnterCpuOverloadPercent = 99
ExitCpuOverloadPercent = 95
[Analog Params]
PolarityReversalType = 1
MinFlashHookTime = 100
[ControlProtocols Params]
AdminStateLockControl = 0
[MGCP Params]
[MEGACO Params]
EP_Num_0 = 0
EP_Num_1 = 1
EP_Num_2 = 1
EP_Num_3 = 0
EP_Num_4 = 0
[PSTN Params]
ProtocolType_1 = 50
ClockMaster = 1
TerminationSide = 1
FramingMethod_1 = 0
LineCode_1 = 0
ISDNIBehavior_1 = 134217728
ISDNInCallsBehavior = 2147553280
ISDNOutCallsBehavior = 1026
[SS7 Params]
```

```
[Voice Engine Params]
FaxTransportMode = 0
V22ModemTransportType = 0
V23ModemTransportType = 0
V32ModemTransportType = 0
V34ModemTransportType = 0
RFC2833TxPayloadType = 101
CallProgressTonesFilename = 'switzerland.dat'
[WEB Params]
LogoWidth = '145'
HTTPSCipherString = 'RC4:EXP'
;HTTPSPkeyFileName is hidden but has non-default value
;HTTPSCertFileName is hidden but has non-default value
[SIP Params]
ROUTEMODETEL2IP = 1
GWDEBUGLEVEL = 5
ISDNRXOVERLAP = 1
SIPSESSIONEXPIRES = 1800
ASSERTEDIDMODE = 1
TRANSPARENTCODERONDATACALL = 1
MINSE = 360
ISFAXUSED = 3
LOCALISDNRBSOURCE = 1
ISDNTRANSFERCAPABILITY = 0
PLAYRBTONE2TRUNK = 3
MSLDAPPRIMARYKEY = 'telephoneNumber'
CALLREROUTINGMODE = 1
SENDLOCALTIMETOISDNCONNECT = 2
GWOUTBOUNDMANIPULATIONSET = 1
ENERGYDETECTORCMD = 587202560
ANSWERDETECTORCMD = 10485760
;GWAPPCONFIGURATIONVERSION is hidden but has non-default value
[SCTP Params]
[VXML Params]
[IPsec Params]
[SNMP Params]
[ 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 ]
[ IpProfile ]
FORMAT IpProfile_Index = IpProfile_ProfileName, IpProfile_IpPreference,
IpProfile_CodersGroupName, IpProfile_IsFaxUsed,
IpProfile_JitterBufMinDelay, IpProfile_JitterBufOptFactor,
IpProfile_IPDiffServ, IpProfile_SigIPDiffServ, IpProfile_SCE,
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_SBCAssertIdentity,
IpProfile_AMDSensitivityParameterSuit, IpProfile_AMDSensitivityLevel,
IpProfile_AMDMaxGreetingTime, IpProfile_AMDMaxPostSilenceGreetingTime,
IpProfile_SBCDiversionMode, 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_GenerateSRTPKeys, 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_SBCSDPHandleRTCPAttribute,
IpProfile_SBCRemoveCryptoLifetimeInSDP, IpProfile_SBCIceMode,
IpProfile_SBCRTCPMux, IpProfile_SBCMediaSecurityMethod,
IpProfile_SBCHandleXDetect, IpProfile_SBCRTCPFeedback,
IpProfile SBCRemoteRepresentationMode, IpProfile SBCKeepVIAHeaders,
IpProfile_SBCKeepRoutingHeaders, IpProfile_SBCKeepUserAgentHeader,
IpProfile_SBCRemoteMultipleEarlyDialogs,
IpProfile_SBCRemoteMultipleAnswersMode, IpProfile_SBCDirectMediaTag,
IpProfile_SBCAdaptRFC2833BWToVoiceCoderBW,
IpProfile_CreatedByRoutingServer, IpProfile_SBCFaxReroutingMode,
IpProfile_SBCMaxCallDuration, IpProfile_SBCGenerateRTP,
IpProfile_SBCISUPBodyHandling, IpProfile_SBCISUPVariant,
IpProfile_SBCVoiceQualityEnhancement, IpProfile_SBCMaxOpusBW;
IpProfile 1 = "IPP_SIP-TRUNK", 1, "AudioCodersGroups_0", 0, 10, 10, 46,
24, 0, 0, 0, 0, 0, 1, 0, 1, -1, 1, 0, 2, -1, 1, 4, -1, 1, 1, 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, 1, 0, 0, 0, 0, 1,
-1, -1, -1, -1, 0, "", 0, 0, 0, 0, 0, 0, 0, 0;
[ \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 0 = "MR_LAN", "NETIF_LAN", "", 6000, 521, 11209, 1, "", "",
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 = "SRD_LAN", 0, -1, 1, 0, 0, 0, "Default_SBCRoutingPolicy", "";
[\SRD]
[ SIPInterface ]
```

FORMAT SIPInterface\_Index = SIPInterface\_InterfaceName, SIPInterface\_NetworkInterface, SIPInterface\_ApplicationType, SIPInterface\_UDPPort, SIPInterface\_TCPPort, SIPInterface\_TLSPort, 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 0 = "SI\_LAN", "NETIF\_LAN", 0, 5060, 5060, 0, "SRD\_LAN", "", "default", -1, 0, 500, -1, 0, "MR\_LAN", 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 = "PS\_DEFAULT", 0, 60, 0, 0, "SRD\_LAN", 0, "", -1, -1, "", "SI\_LAN", "", "", "", 1, 1, 10, -1; ProxySet 1 = "PS\_SIP-TRUNK", 1, 10, 0, 0, "SRD\_LAN", 1, "", 1, -1, "", "SI\_LAN", "", "", 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\_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 0 = 0, "IPG\_DEFAULT", "PS\_DEFAULT", "", "", -1, 0, "SRD\_LAN", "", 0, "", -1, -1, -1, 0, 0, "", 0, -1, -1, "", "", "\$1\$gQ==", 0, "", "", 0,"", "", 0, 0, "default", 0, 0, -1, 0, 0, 0, "", -1; IPGroup 1 = 0, "IPG\_SIP-TRUNK", "PS\_SIP-TRUNK", "10.254.150.52", "", -1, 0, "SRD\_LAN", "MR\_LAN", 1, "IPP\_SIP-TRUNK", -1, -1, -1, 0, 0, "", 0, -1, -1, "", "", "\$1\$gQ==", 0, "", "", 0, "", "", 0, 0, "default", 0, 0, -1, 0, 0, 0, "", -1;

```
[ \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 = "PBX-to-SIP-Trunk", "*", "", "*", "", ", 0, "IPG_SIP-TRUNK",
-1, -1, "", "", -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 1 = 2, 0, 1, 2, "B100", "", 1, 2;
[ \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_SrcIPGroupName;
NumberMapIp2Tel 0 = "Dst-In-National", "+41", "*", "*", "*", "*", 255,
255, 3, 0, 255, "0", "", 255, "Any";
NumberMapIp2Tel 1 = "Dst-In-International", "+", "*", "*", "*", 255,
255, 1, 0, 255, "00", "", 255, "Any";
[ \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_DestIPGroupName;
NumberMapTel2Ip 0 = "Dst-Out-International", "00", "*", 255, 255, 2, 0,
255, "+", "", 255, -1, "Any";
NumberMapTel2Ip 1 = "Dst-Out-National", "0[1-9]", "*", 255, 255, 1, 0,
255, "+41", "", 255, -1, "Any";
```

```
NumberMapTel2Ip 2 = "Dst-Out-NoZero", "[1-9]xx.", "*", 255, 255, 0, 0,
255, "+41", "", 255, -1, "Any";
[ \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_SrcIPGroupName;
SourceNumberMapIp2Tel 0 = "Src-In-National", "*", "+41", "*", "*", "*",
255, 255, 3, 0, 255, "0", "", 255, "Any";
SourceNumberMapIp2Tel 1 = "Src-In-International", "*", "+", "*", "*",
"*", 255, 255, 1, 0, 255, "00", "", 255, "Any";
SourceNumberMapIp2Tel 2 = "Src-In-Anonymous", "*", "anonymous", "*", "*",
"*", 255, 255, 0, 0, 0, "", "", 1, "Any";
[ \SourceNumberMapIp2Tel ]
[ SourceNumberMapTel2Ip ]
FORMAT SourceNumberMapTel2Ip_Index =
SourceNumberMapTel2Ip_ManipulationName,
SourceNumberMapTel2Ip_DestinationPrefix,
SourceNumberMapTel2Ip_SourcePrefix, SourceNumberMapTel2Ip_NumberType,
SourceNumberMapTel2Ip NumberPlan, SourceNumberMapTel2Ip RemoveFromLeft,
SourceNumberMapTel2Ip_RemoveFromRight,
SourceNumberMapTel2Ip_LeaveFromRight, SourceNumberMapTel2Ip_Prefix2Add,
SourceNumberMapTel2Ip_Suffix2Add,
SourceNumberMapTel2Ip_IsPresentationRestricted,
SourceNumberMapTel2Ip_SrcTrunkGroupID;
SourceNumberMapTel2Ip 0 = "Src-Out-International", "*", "00", 255, 255,
2, 0, 255, "+", "", 255, -1;
SourceNumberMapTel2Ip 1 = "Src-Out-National", "*", "0", 255, 255, 1, 0,
255, "+41", "", 255, -1;
SourceNumberMapTel2Ip 2 = "Src-Out-NoZero", "*", "[1-9]xx.", 255, 255, 0,
0, 255, "+41", "", 255, -1;
[ \SourceNumberMapTel2Ip ]
[ 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 = "SIP-Trunk-to-PBX", "*", 2, "", "", "", "", "", "", "Any",
-1, -1, 0;
```

**Configuration Note** 

```
[ \PstnPrefix ]
[ CauseMapIsdn2Sip ]
FORMAT CauseMapIsdn2Sip_Index = CauseMapIsdn2Sip_IsdnReleaseCause,
CauseMapIsdn2Sip_SipResponse;
CauseMapIsdn2Sip 0 = 21, 603;
[ \CauseMapIsdn2Sip ]
[ ProxyIp ]
FORMAT ProxyIp_Index = ProxyIp_ProxySetId, ProxyIp_ProxyIpIndex,
ProxyIp_IpAddress, ProxyIp_TransportType;
ProxyIp 0 = "1", 0, "10.254.150.52:5060", 1;
ProxyIp 1 = "1", 1, "10.254.150.52:5060", 0;
[ \ProxyIp ]
[ RedirectNumberMapIp2Tel ]
FORMAT RedirectNumberMapIp2Tel_Index =
RedirectNumberMapIp2Tel_ManipulationName,
RedirectNumberMapIp2Tel_DestinationPrefix,
RedirectNumberMapIp2Tel_RedirectPrefix,
RedirectNumberMapIp2Tel_SourceAddress, RedirectNumberMapIp2Tel_SrcHost,
RedirectNumberMapIp2Tel_DestHost, RedirectNumberMapIp2Tel_NumberType,
RedirectNumberMapIp2Tel_NumberPlan,
RedirectNumberMapIp2Tel_RemoveFromLeft,
RedirectNumberMapIp2Tel_RemoveFromRight,
RedirectNumberMapIp2Tel_LeaveFromRight,
RedirectNumberMapIp2Tel_Prefix2Add, RedirectNumberMapIp2Tel_Suffix2Add,
RedirectNumberMapIp2Tel_IsPresentationRestricted;
RedirectNumberMapIp2Tel 0 = "Rn-In-National", "*", "+41", "*", "*", "*",
0, 0, 3, 0, 255, "0", "", 255;
RedirectNumberMapIp2Tel 1 = "Rn-In-International", "*", "+", "*", "*",
"*", 0, 0, 1, 0, 255, "00", "", 255;
[ \RedirectNumberMapIp2Tel ]
[ RedirectNumberMapTel2Ip ]
FORMAT RedirectNumberMapTel2Ip_Index =
RedirectNumberMapTel2Ip_ManipulationName,
RedirectNumberMapTel2Ip_DestinationPrefix,
RedirectNumberMapTel2Ip_RedirectPrefix,
RedirectNumberMapTel2Ip_NumberType, RedirectNumberMapTel2Ip_NumberPlan,
RedirectNumberMapTel2Ip_RemoveFromLeft,
RedirectNumberMapTel2Ip_RemoveFromRight,
RedirectNumberMapTel2Ip_LeaveFromRight,
RedirectNumberMapTel2Ip_Prefix2Add, RedirectNumberMapTel2Ip_Suffix2Add,
RedirectNumberMapTel2Ip_IsPresentationRestricted,
RedirectNumberMapTel2Ip_SrcTrunkGroupID;
RedirectNumberMapTel2Ip 0 = "Rn-Out-International", "*", "00", 255, 255,
2, 0, 255, "+", "", 255, -1;
```

```
RedirectNumberMapTel2Ip 1 = "Rn-Out-National", "*", "0", 255, 255, 1, 0,
255, "+41", "", 255, -1;
RedirectNumberMapTel2Ip 2 = "Rn-Out-NoZero", "*", "[1-9]xx.#", 255, 255,
0, 0, 255, "+41", "", 255, -1;
[ \RedirectNumberMapTel2Ip ]
[ CodersGroup0 ]
  *** TABLE CodersGroup0 ***
;
; This table contains hidden elements and will not be exposed.
; This table exists on board and will be saved during restarts.
[ \CodersGroup0 ]
[ MessageManipulations ]
FORMAT MessageManipulations_Index =
MessageManipulations_ManipulationName, MessageManipulations_ManSetID,
MessageManipulations_MessageType, MessageManipulations_Condition,
MessageManipulations_ActionSubject, MessageManipulations_ActionType,
MessageManipulations_ActionValue, MessageManipulations_RowRole;
MessageManipulations 0 = "Options Request-URI", 1, "OPTIONS.request", "",
"header.request-uri.url.host", 2, "param.message.address.dst.address", 0;
MessageManipulations 1 = "Set Contact-User to Anonymous", 1,
"invite.request", "header.privacy regex (id)", "header.contact.url.user",
2, "'anonymous'", 0;
MessageManipulations 2 = "Edit Diversion-Header", 1, "invite.request",
"header.diversion exists AND header.diversion regex (<tel:)(.*)(>.*)",
"header.diversion", 2, "'<sip:'+$2+'@'+header.contact.url.host+$3", 0;
MessageManipulations 3 = "Edit PAI if anonymous", 1, "invite.request",
"header.diversion exists AND header.diversion regex (<sip:)(.*)(@.*) AND
header.privacy=='id'", "header.p-asserted-identity", 2,
"'<sip:'+$2+'@'+header.contact.url.host+'>'", 0;
MessageManipulations 4 = "Remove T.38 from SDP", 1, "invite.request",
"body.sdp regex (.*)(m=image)(.*)", "body.sdp", 2, "$1", 0;
[ \MessageManipulations ]
[ 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 ]
[ 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, 1, 2, 90, -1, 0, "";
AudioCoders 1 = "AudioCodersGroups_0", 0, 1, 2, 90, -1, 0, "";
AudioCoders 2 = "AudioCodersGroups_0", 2, 4, 255, 255, -1, 0, "";
```

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