AudioCodes Professional Services – Interoperability Lab

Acantho SIP Trunk & Genesys Contact Center using AudioCodes Mediant SBC

Version 7.2



Senesys[®]



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Abbreviations and Terminology

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

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Documentation Feedback

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1 Introduction

This document describes how to configure AudioCodes' Session Border Controller (hereafter referred to as SBC) for interworking between the Acantho ITSP SIP Trunk and Genesys Contact Center.



Note: Throughout this document, the term 'SBC' also refers to AudioCodes' Mediant SBC product series.

1.1 Intended Audience

The document is intended for engineers, or AudioCodes and Genesys Contact Center Partners who are responsible for installing and configuring the Acantho ITSP SIP Trunk and Genesys Contact Center for enabling VoIP calls using AudioCodes' SBC.

1.2 About AudioCodes SBC Product Series

AudioCodes' family of SBC devices enables reliable connectivity and security between the enterprise and the Service Provider's VoIP networks.

The SBC provides perimeter defense as a way of protecting enterprises from malicious VoIP attacks; mediation for allowing the connection of any PBX and/or IP PBX to any Service Provider; and Service Assurance for service quality and manageability.

Designed as a cost-effective appliance, the SBC is based on field-proven VoIP and network services with a native host processor, allowing the creation of purpose-built multiservice appliances, providing smooth connectivity to cloud services, with integrated quality of service, SLA monitoring, security and manageability.

The native implementation of SBC provides a host of additional capabilities that are not possible with standalone SBC appliances such as VoIP mediation, PSTN access survivability, and third-party value-added services applications. This enables enterprises to utilize the advantages of converged networks and eliminate the need for standalone appliances.

AudioCodes' SBC is available as an integrated solution running on top of its field-proven Mediant Media Gateway and Multi-Service Business Router (MSBR) platforms, or as a software-only solution for deployment with third-party hardware.

1.3 About Genesys Contact Center

Genesys Contact Center Solutions allow companies to manage customer requirements effectively by routing customers to appropriate resources and agents through IVR and consolidated cross-channel management of all of a customer's interactions. Sophisticated profiling, outbound voice and performance management enables companies to provide very personalized customer care and delivery.

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2 Component Information

2.1 AudioCodes SBC Version

Table 2-1: AudioCodes SBC Version

SBC Vendor	AudioCodes		
Models	 Mediant 500 E-SBC Mediant 800 Gateway & E-SBC Mediant 1000B Gateway & E-SBC Mediant 2600 E-SBC Mediant 3000 Gateway & E-SBC Mediant 4000 SBC Mediant 9000 SBC Mediant Software SBC (Server Edition and Virtual Edition) 		
Software Version	SIP_7.20A.250.256		
Protocol	SIP/UDP (to the Acantho ITSP SIP Trunk)SIP/UDP (to the Genesys Contact Center system)		
Additional Notes	None		

2.2 Acantho SIP Trunking Version

Table 2-2: Acantho Version

Vendor/Service Provider	Acantho
SSW Model/Service	MetaSwitch
Software Version	Unknown
Protocol	SIP
Additional Notes	None

2.3 Genesys Contact Center Version

Table 2-3: Genesys Contact Center Version

Vendor	Genesys
Software Version	Genesys SIP Server v8.1.102.25/Genesys Voice Platform (GVP) v8.5
Protocol	SIP
Additional Notes	None

2.4 Interoperability Test Topology

The Genesys Contact Center SIP Server is connected to the Acantho ITSP SIP Trunk Provider via an SBC in a similar way to an IP-PBX.



Note: Contact your Genesys Contact Center support channel for more information about topological scenarios.

Interoperability testing between AudioCodes SBC and Acantho ITSP SIP Trunk with Genesys Contact Center 8.1 was performed using the following topology:

- The enterprise was deployed with a Genesys Contact Center as a service using robust Contact Center functionality and interactive voice response (IVR) to efficiently connect customers with the right agents and information at the right time.
- The enterprise SBC connected the Genesys Contact Center with the Public PSTN via the Acantho ITSP SIP Trunk, as an Over the Top (OTT) trunk over the public network.
- AudioCodes' SBC was deployed to interconnect between the enterprise's LAN and the SIP trunk.
 - The SBC was connected to the Genesys Contact Center SIP server on the Genesys Contact Center internal network, and to the Acantho ITSP SIP Trunk located on the public network.
 - RTP traffic from/to the Acantho ITSP SIP trunk flowed via an SBC to/from Genesys Contact Center Media Server, or to a local agent phone on the Call Center network, or to a Remote Agent on the PSTN network or public Internet space.

The figure below illustrates the interoperability test topology:

Figure 2-1: Interoperability Test Topology



2.4.1 Environment Setup

The interoperability test topology includes the following environment setup:

Table 2-4: Environment Setup

Area	Setup
Network	 Genesys Contact Center environment as a service is located on the Genesys Contact Center network Genesys Contact Center agent SIP phones are located on the enterprise's LAN. Remote Agent directory numbers (DNs) exist in the public network Acantho ITSP SIP Trunk is located on the WAN
Signaling Transcoding	 Genesys Contact Center operates with SIP-over-UDP, TCP or TLS transport type Acantho SIP Trunk operates with SIP-over-UDP transport type. The interoperability test environment used SIP-over-UDP
Codecs Transcoding	 Genesys Contact Center is capable of supporting G.729, G.711A-law, G.711U-law, G.723, G722.2 and G.726 coders Acantho SIP Trunk supports G.729 (preferred) and G.711 A-law (recommended) coders
Media Transcoding	 Genesys Contact Center and Acantho SIP Trunk operate with RTP media Type
DTMF	 Genesys Contact Center supports delivering DTMF using SIP INFO message, RFC 2833 Named Telephony events, and in-band per ITU-T Recommendation Q.23 Acantho supports RFC 2833



Note: The configuration data used in this document, such as IP addresses and FQDNs are used for example purposes only. This data should be configured according to the site specifications.

2.4.2 Known Limitations/Restrictions/Notes

The following Genesys Call Center functionality is not supported by Acantho SIP Trunk:

- SIP 302 Moved Temporarily: Acantho does not support SIP 302 Moved Temporarily. This should be handled locally by the SBC.
- SIP REFER: Acantho does not support SIP REFER operation. This should be handled locally by the SBC.
- P-Asserted-Identity: Acantho requires P-Asserted-Identity header to be included in initial SIP INVITE. The SIP URI user part in the PAI must contain the e.164 number of the calling party, which must be one of the (on-net) numbers assigned by Acantho. This can be implemented by Genesys contact center, or it can be handled by the SBC.

If considering implementing Genesys contact center implementation, this can be defined in the Genesys DN object (Annex -> TServer section) for each extension, as indicated by the following example using CME.

Edit Opti	on 🗙
•	Option Name:
adc	sp-asserted-identity
	Option Value: ''0274557720'' <sip:0274557720@telecomitalia.it:5060;user=< th=""></sip:0274557720@telecomitalia.it:5060;user=<>
	OK Cancel

SIP Authentication for Outbound Calls: Acantho does not support the use of SIP Digest (challenging the SIP User Agent on receiving a SIP Request from the Contact Center). If SIP authentication for outbound calls (from the Contact Center) is required, the SIP authentication challenge can be handled on the SBC as part of the Trunk-Side Equipment (TSE).

If considering implementation in Genesys contact center, this can be defined in the Options -> AuthClient section of the outgoing trunk, as indicated by the following example using CME. Note if SIP Authentication is not required, then both options would not be defined.

Edit Opti	on		×
e aha	Option Name:		
acc	username		
	Option Value: UN123456		
		ОК	Cancel
Edit Opti	on		×
Edit Opti	on Option Name: password		×
Edit Opti	on Option Name: password Option Value:		×
Edit Opti	on Option Name: password Option Value:		×

SBCMAXFORWARDSLIMIT: For the interoperability test, this parameter was set to the a setting of 70 (default = 10). Consider configuring this parameter according to deployment requirements. (Setup tab > SBC folder > SBC General Settings) This page is intentionally left blank.

3 Configuring AudioCodes SBC

This section shows how to configure AudioCodes SBC for interworking between Genesys Contact Center and the Acantho ITSP SIP Trunk. The configuration is based on the interoperability test topology described in Section 2.4 on page 10 and includes the following:

- **SBC WAN interface** Acantho ITSP SIP Trunking environment
- **SBC LAN interface** Genesys Contact Center environment

Configuration is performed using the SBC's embedded Web server (referred to as *Web interface* in this document). For detailed information on configuring AudioCodes E-SBCs, refer to the E-SBC User's Manual.

Note:

- To implement the Genesys Contact Center and Acantho ITSP SIP Trunk based on the configuration described in this section, the SBC must be installed with a Software License Key that includes the following software features:
 - \sqrt{SBC}
 - √ Security
 - √ RTP
 - √ SIP

For more information about the Software License Key, contact your AudioCodes Sales Representative.

- The scope of this interoperability test and document does not cover all security aspects of connecting the SIP Trunk to the Genesys Contact Center environment. Comprehensive security measures should be implemented per the enterprise's security policies. For security recommendations on AudioCodes' products, refer to the *Recommended Security Guidelines* document.
- The tables in this document were copied from the configured interoperability laboratory system and are listed in the order necessary to route correctly. If the configuration was built with sequential indices, it may be necessary to use the **Up** and **Down** buttons to correctly order the rows. The Genesys2RemoteAgents row has been moved up in the table so the more specific condition is evaluated for routing before the more general conditions.
- Before you begin configuring the SBC, ensure that the SBC's Web interface navigation tree is in **Advanced** display mode, selectable as shown below:

	Configuration	Maintenance Search	Status & Diagnostics			
		Advanced		\bigcirc		
	⊕	$\overline{\}$				
Note that when th	ne SBC is reset	, the navigati	on tree revert	s to Bas	sic display	mod



3.1 Step 1: Configure IP Network Interfaces

This step describes how to configure the SBC's IP network interfaces. A number of methods can be used to deploy the SBC; the interoperability test topology uses the following method:

- SBC interfaces with these IP entities:
 - Genesys Contact Center, located on the Genesys Contact Center Service
 Provider network (LAN)
 - Acantho ITSP SIP Trunk, located on the WAN
- SBC connects to the WAN through a DMZ network.
- Physical connection to the LAN: Type depends on the method used to connect to the Genesys Contact Center Service Provider's network. In the interoperability test topology, the SBC connects to the LAN and WAN using dedicated LAN ports (i.e., using two ports and two network cables).
- SBC uses two logical network interfaces:
 - LAN 10.38.5.x (VLAN ID 1)
 - WAN 173.227.254.x (VLAN ID 2)

Figure 3-1: Network Interfaces in Interoperability Test Topology



3.1.1 Step 1a: Configure Physical Ports

This step describes how to define Physical Ports for each of the following interfaces:

- GE_1: This is a port interfacing the Trusted/LAN network segment. The Genesys SIP Server is access via this interface.
- GE_2: This is a port interfacing the Untrusted/WAN network segment. The ITSP is accessed via this interface.

> To configure the physical Ethernet ports:

- Open the Physical Ports table (Setup menu > IP Network tab > Core Entities folder > Physical Ports).
- 2. Confirm configuration of a port and that the port is a member of an Ethernet Group (see next step to make the port a member of an Ethernet Group if needed).

Figure 3-2: Physical Ports-GE1

#0[GE_1]

GENERAL		ETHERNET GROUP	
Name	GE_1	Member of Ethernet Gro	GROUP_1
Description	• User Port #0	Group Status	Active
Mode	Enable		
Speed and Duplex	Auto Negotiation		

Figure 3-3: Physical Ports-GE2

#1[GE_2]

GENERAL		ETHERNET GROUP	
Name	GE_2	Member of Ethernet Gro	GROUP_2
Description	User Port #1	Group Status	Active
Mode	Enable		
Speed and Duplex	Auto Negotiation		

3.1.2 Step 1b: Configure Ethernet Port Groups

This step describes how to define members to an Ethernet Port Group for each of the interfaces:

- GROUP_1: This is a redundancy group of ports interfacing the Trusted/LAN network segment. The Genesys SIP Server is access via this interface.
- GROUP_2: This is a redundancy group of ports interfacing the Untrusted/WAN network segment. The ITSP is accessed via this interface
- To configure Ethernet Groups:
- Open the Ethernet Groups table (Setup menu > IP Network tab > Core Entities folder > Ethernet Groups).
- 2. If the ports defined above are not already a member of different port groups, assign them as such.

Figure 3-4: Ethernet Port Group 1

#0[GROUP_1]

GENERAL	
Name	GROUP_1
Mode	• SINGLE
Member 1	• #[GE_1]
Member 2	• #[]

Figure 3-5: Ethernet Port Group 2

#1[GROUP_2]

GENERAL	
Name	GROUP_2
Mode	• SINGLE
Member 1	• #[GE_2]
Member 2	• #[]

3.1.3 Step 1c: Configure Underlying Ethernet Devices

This step describes how to define VLANs for each of the following interfaces:

- LAN VoIP (assigned the name "Trusted")
- WAN VoIP (assigned the name "Untrusted")
- > To configure an Ethernet Device:
- Open the Ethernet Devices table (Setup menu > IP Network tab > Core Entities folder > Ethernet Devices).
- Create an association between the VLAN ID's, underlying interface and the Ethernet Device Name. In this example, VLAN ID 254 is used for the Untrusted interface, but since this is untagged, the value is only noted for future reference to the network VLAN id the traffic passes over.

Figure 3-6: Ethernet Device-Trusted

#0[Trusted]

GENERAL		
Name	Trusted	
VLAN ID	1	
Underlying Interface	GROUP_1	View
Tagging	Untagged	

Figure 3-7: Ethernet Device-Untrusted

#1[Untrusted]

GENERAL		
Name	Untrusted	
VLAN ID	• 254	
Underlying Interface	GROUP_2	View
Underlying Interface Tagging	GROUP_2 Untagged	View

3.1.4 Step 1b: Configure Network Interfaces

This step describes how to configure the following interfaces:

- LAN VoIP interface (assigned the name "Trusted") and
- WAN VoIP interface (assigned the name "Untrusted")
- > To configure IP network interfaces:
- Open the IP Interfaces table (Setup menu > IP Network tab > Core Entities folder > IP Interfaces).
- 2. Modify the existing LAN network interface: (per Site Specifications).

Figure 3-8: LAN Network Interface

#0[NETMGT]

GENERAL			IP ADDRESS	
Name	NETMGT		Interface Mode	IPv4 Manual
Application Type	OAMP + Media + Control		IP Address	• 192.168.20.83
Ethernet Device	• #[Trusted]	View	Prefix Length	• 24
			Default Gateway	• 192.168.20.1
DNS				
Primary DNS	0.0.0.0			
Secondary DNS	0.0.0.0			

3. Add a network interface for the WAN side: (per Site Specifications).

Figure 3-9: WAN Network Interface

#1[PUBSIP]

GENERAL			IP ADDRESS	
Name	PUBSIP		Interface Mode	IPv4 Manual
Application Type	 Media + Control 		IP Address	• 173.227.254.67
Ethernet Device	# [Untrusted]	View	Prefix Length	• 26
			Default Gateway	• 173.227.254.66
DNS				
Primary DNS	• 8.8.4.4			
Secondary DNS	• 8.8.8.8			

configured IP network interfaces are shown below:

The

Figure 3-10: Configured Network Interfaces in IP Interfaces Table

IP Interfaces (2)

+ New E	dit 🛛 🗐 🔟		🛯 🔫 Page	1 of 1 🔛	▶ Show 10 ▼	records per page			Q
INDEX ≑	NAME	APPLICATION TYPE	INTERFACE MODE	IP ADDRESS	PREFIX LENGTH	DEFAULT GATEWAY	PRIMARY DNS	SECONDARY DNS	ETHERNET DEVICE
0	NETMGT	OAMP + Media	IPv4 Manual	192.168.20.83	24	192.168.20.1	0.0.0.0	0.0.0.0	Trusted
1	PUBSIP	Media + Contro	IPv4 Manual	173.227.254.67	26	173.227.254.66	8.8.4.4	8.8.8.8	Untrusted

3.2 Step 2: Enable the SBC Application

This step describes how to enable the SBC application *if on a hybrid device*.

Before you can start configuring the SBC, you must first enable the SBC application. Once enabled, the Web interface displays the menus and parameter fields relevant to the SBC application.



Note: The SBC feature is available only if the device is installed with a License Key that includes this feature.

> To enable the SBC application:

- 1. Open the Applications Enabling page (Setup menu > Signaling & Media tab > Core Entities folder > Applications Enabling).
- 2. From the 'SBC Application' drop-down list, select **Enable**:

Figure 3-11: SBC Application

GENERAL			
SBC Application	•	Enable	• \$

3. Click **Apply**, and then reset the device with a save-to-flash for your settings to take effect.

3.3 Step 3: Signaling Routing Domains

This step describes Signaling Routing Domains (SRDs). The SRD is a logical representation of an entire SIP-based VoIP network (Layer 5) consisting of groups of SIP users and servers. The SRD is associated with all the configuration entities (e.g., SIP Interfaces and IP Groups) required for routing calls within the network. Typically, only a *single* SRD is required (recommended) for most deployments. Multiple SRDs are only required for multi-tenant deployments, where the physical device is "split" into multiple logical devices. In this case, it is suitable to use the default SRD. The SRD comprises:

- SIP Interface (mandatory)
- IP Group (mandatory)
- Proxy Set (mandatory)
- Admission Control rule (optional)
- Classification rule (optional)

As each SIP Interface defines a different Layer-3 network on which to route or receive calls and as you can assign multiple SIP Interfaces to the same SRD, for most deployment scenarios (even for multiple Layer-3 network environments), you only need to employ a single SRD to represent your VoIP network (Layer 5). For example, if your VoIP deployment consists of a Genesys SIP Server (LAN), a SIP Trunk (WAN), and far-end users (WAN), you would only need a single SRD. The single SRD would be assigned to three different SIP Interfaces, where each SIP Interface would represent a specific Layer-3 network (IP PBX, SIP Trunk, or far-end users) in your environment.

> To view the default SRD:

1. Open the SRDs table (Setup menu > Signaling & Media tab > Core Entities folder > SIP Interfaces).

Figure 3-12: Default SRD

#0[DefaultSRD]

GENERAL			REGISTRATION	
Name	DefaultSRD		Max. Number of Registe	-1
Sharing Policy	Shared		User Security Mode	Accept All
SBC Operation Mode	B2BUA		Enable Un-Authenticate	Enable
SBC Routing Policy	• # [Default_SBCRoutingPolicy]	View		
Used By Routing Server	Not Used			
Dial Plan	• #[]	View		

3.3.1 Step 3a: Configure Media Realms

This step describes how to configure Media Realms. The simplest way is to create two Media Realms - one for internal Genesys traffic and one for external ITSP traffic. Remote Agents will also use a Media Realm, but this will be covered later.

To configure Media Realms:

- Open the Media Realms table (Setup menu > Signaling & Media tab > Core Entities folder > Media Realms).
- 2. Modify the existing Media Realm for LAN traffic or create a new MR:

Parameter	Value
Index	1
Media Realm Name	MR-SBC2Genesys (descriptive name)
IPv4 Interface Name	NETMGT
Port Range Start	8000 (represents lowest UDP port number used for media on LAN).
Number of Media Session Legs	100 (media sessions assigned with port range)

Figure 3-13: Configure Media Realm for LAN

0		N I			٨	н
- L ٦	-	IN	F	к	А	л
	-		-	.,	<i>,</i> ,	-

Index	1
Name	MR-SRC2Genesus
Topology Location	
IBud Interface Name	
•	
Port Range Start •	8000
Number Of Media Session Legs	100
Port Range End	8999
Default Media Realm	No

3. Configure a Media Realm for WAN traffic:

Parameter	Value
Index	2
Media Realm Name	MR-SBC2ITSP (arbitrary name)
IPv4 Interface Name	PUBSIP
Port Range Start	6000 (represents the lowest UDP port number used for media on WAN).
Number of Media Session Legs	100 (media sessions assigned with port range).

GENERAL			
Index		2	
Name	•	MR-SBC2ITSP	
Topology Location		Down	•
IPv4 Interface Name	•	#1 [PUBSIP]	View
Port Range Start	•	6000	
Number Of Media Session Legs	•	100	
Port Range End		6999	
Default Media Realm		No	•

Figure 3-14: Configure Media Realm for ITSP

The configured Media Realms are shown in the figure below:

Figure 3-15: Configured Media Realms in Media Realm Table

Media Realms (4)) .					
+ New Edit 🗎	i	IN IN Page 1 of	1 🍉 🛏 Show 10 🔻 recor	ds per page		Q
INDEX ≑	NAME	IPV4 INTERFACE NAME	PORT RANGE START	NUMBER OF MEDIA SESSION LEGS	PORT RANGE END	DEFAULT MEDIA REALM
0	DefaultRealm	NETMGT	62000	100	62999	Yes
1	MR-SBC2Genesys	NETMGT	8000	100	8999	No
2	MR-SBC2ITSP	PUBSIP	6000	100	6999	No

3.3.2 Step 3b: Configure SIP Signaling Interfaces

This step describes how to configure SIP Interfaces. For the interoperability test topology, an internal (Genesys) and 2 external SIP Interfaces (one for the ITSP and one for Remote Agents, discussed later) are configured for the SBC.

To configure a SIP Interface:

- 1. Open the SIP Interfaces table (Setup menu > Signaling & Media tab > Core Entities folder > SIP Interfaces).
- 2. Configure a SIP interface for the LAN:

Parameter	Value
Index	1
Interface Name	Genesys (arbitrary descriptive name)
Network Interface	NETMGT
Application Type	SBC
UDP	5060
SRD	DefaultSRD

3. Configure a SIP interface for the WAN:

Parameter	Value
Index	2
Interface Name	ITSP (arbitrary descriptive name)
Network Interface	Untrusted
Application Type	SBC
UDP	5060
SRD	DefaultSRD

The configured SIP Interfaces are shown in the figure below. SIPInterface_0 is a default SIP interface that is not used.

Figure 3-16: Configured SIP Interfaces in SIP Interface Table

SIP Interfaces (4)									
+ New Edit			Page 1	of 1 🕨 🕨 Show	10 V records per pa	ge			Q
INDEX 🗢	NAME	SRD	NETWORK INTERFACE	APPLICATION TYPE	UDP PORT	TCP PORT	TLS PORT	ENCAPSULATING PROTOCOL	MEDIA REALM
0	SIPInterface_0	DefaultSRD (#0)	NETMGT	GW	0	0	0	No encapsulation	
1	Genesys	DefaultSRD (#0)	NETMGT	SBC	5060	5060	0	No encapsulation	Trusted
2	ITSP	DefaultSRD (#0)	PUBSIP	SBC	5060	0	0	No encapsulation	Untrusted
3	AHA	DefaultSRD (#0)	PUBSIP	SBC	5070	0	0	No encapsulation	Untrusted

3.4 Step 4: Configure Proxy Sets

This step describes how to configure Proxy Sets. The Proxy Set defines the destination address (IP address or FQDN) of the IP entity server. Proxy Sets can also be used to configure load balancing between multiple servers. For the interoperability test topology, two Proxy Sets must be configured for the following IP entities:

- Genesys Contact Center SIP Server
- ITSP SIP Trunk

These Proxy Sets will later be associated with IP Groups.

- > To configure Proxy Sets:
- Open the Proxy Sets Table page (Setup menu > Signaling & Media tab > Core Entities folder > Proxy Sets).
- 2. Configure a Proxy Set for the Genesys Contact Center:

Parameter	Value
Proxy Set ID	1
SRD	DefaultSRD
Name	Genesys
SBC IPv4 SIP Interface	Genesys
Proxy Keep Alive	Using OPTIONs
Proxy Address	sipserver.genesys-domain.com:5060 Genesys Contact Center IP address / FQDN and destination port.
Transport Type	UDP

Figure 3-17: Configure Proxy Set for Genesys Contact Center SIP Server

#1[Genesys] = # [DefaultSRD]

GENERAL			REDUNDANCY	
Name	Genesys		Redundancy Mode	
Gateway IPv4 SIP Interf	# []	View	Proxy Hot Swap	Disable
SBC IPv4 SIP Interface	• #[Genesys]	View	Proxy Load Balancing	Disable
TLS Context Name	• # [default]	View	Min. Active Servers for	1
KEEP ALIVE			ADVANCED	
Proxy Keep-Alive	 Using OPTIONS 		Classification Input	IP Address or
Proxy Keep-Alive Time	60		DNS Resolve Method	
Keep-Alive Failure Res				
Success Detection Retr	1		PROXY ADDRESS	TYPE
Success Detection Inte	10	\rightarrow	sipserver.genesys-do	UDP
Failure Detection Retra	-1	-		

3. While positioned on the Proxy Set index, select the Proxy Address Table link at the bottom of the page and configure the address / FQDN for the proxy. Open the Proxy Sets Table page (Setup tab > Signaling&Media tab > Core Entities folder > Proxy Sets), position on index, select Proxy Address link, and then select Add).

	riguit				
Proxy A	ddress				- x
	GENERAL				
	Index		0		
\longrightarrow	Proxy Address	•	sipserver.genesys-domain.com:5060		
\longrightarrow	Transport Type	•	UDP	T	

Figure 3-18: Proxy Address Table - Add Row

4. Repeat Steps 1-3 for the ITSP Proxy Set.

Parameter	Value
Proxy Set ID	2
SRD	DefaultSRD
Name	ITSP (arbitrary)
SBC IPv4 SIP Interface	ITSP
Proxy Keep Alive	Using OPTIONs
Proxy Address	Sipx.acantho.it:5070 ITSP IP address / FQDN and destination port.
Transport Type	UDP

Proxy Se	ets				
	GENERAL				
	Index		2		
\longrightarrow	• Name	•	ITS	p	
\longrightarrow	Gateway IPv4 SIP Interface				View
\longrightarrow	SBC IPv4 SIP Interface	•		#2 [ITSP]	View
	TLS Context Name				View
	KEEP ALIVE				
\longrightarrow	Proxy Keep-Alive		•	Using OPTIONS	•
	Proxy Keep-Alive Time [sec]			60	
	Keep-Alive Failure Responses				
	Success Detection Retries			1	
	Success Detection Interval			10	

Figure 3-19: Configure Proxy Set for ITSP SIP Trunk

Figure 3-20: Configure Proxy Set for ITSP SIP Trunk – Add Row

Proxy Ad	ldress		– x
	GENERAL		
	Index	0	
\rightarrow	Proxy Address	sipx.acantho.it:5070	
\rightarrow	Transport Type	UDP V	

3.5 Step 5: Configure IP Groups

This step describes how to configure IP Groups. The IP Group represents an IP entity on the network with which the SBC communicates. This can be a server (e.g., IP PBX or ITSP) or 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. A typical deployment consists of multiple IP Groups associated with the same SRD. For example, you can have a LAN IP PBXs sharing the same SRD, with an ITSP / SIP Trunk and a User group. Once IP Groups are configured, they are used to configure IP-to-IP routing rules for denoting the source and destination of the call.

In the interoperability test topology, IP Groups were configured for the following IP entities:

- Genesys Contact Center located on LAN (Server Group)
- ITSP SIP Trunk located on WAN (Server Group)
- Remote User Agents located in the WAN (User Group) (see Section 3.10 on page 39)
- **To configure IP Groups:**
- Open the IP Group Table page (Setup menu > Signaling & Media tab > Core Entities folder > IP Groups table).
- 2. Configure an IP Group for the Genesys Contact Center SIP Server:

Parameter	Value
Index	1
Туре	Server
Description	Genesys (arbitrary descriptive name)
Proxy Set ID	Genesys
SRD	DefaultSRD
Media Realm Name	MR1-SBC2Genesys
IP Profile ID	Genesys

Figure 3-21: Configure an IP Group for the Genesys Call Center

			SRD		#0
GENERAL					
Index		1			
Name		Genesys			
Topology Location		Down			•
Туре		Server			٣
Proxy Set		#1 [Genesys]		•	View
IP Profile		#1 [Genesys]		•	View
 Media Realm		#1 [MR-SBC2Genesys]		•	View
Contact User					
SIP Group Name					
SBC GENERAL					
Classify By Proxy Set	Enat	le		,	,
SBC Operation Mode	 B2B 	UA		,	,
SBC Client Forking Mode	Sequ	uential		,	,

3. Configure an IP Group for the ITSP SIP Trunk:

Parameter	Value
Index	2
Туре	Server
Description	ITSP (arbitrary descriptive name)
Proxy Set ID	ITSP
SRD	DefaultSRD
Media Realm Name	MR2-SBC2ITSP
IP Profile ID	ITSP

Figure 3-22: Configure an IP Group for the ITSP SIP Trunk (Common Tab)

	GENERAL				
	Index		2		
	Name		ITSP		
	Topology Location		Down	٣	
	Туре		Server	٣	
;	Proxy Set		#2 [ITSP]	View	N
	IP Profile		#2 [PostItaliane]	View	w
	Media Realm		#2 [MR-SBC2ITSP]	Viev	w
	Contact User				
	SIP Group Name				
	Created By Routing Server		No		
	Used By Routing Server		Not Used	•	
	Proxy Set Connectivity		Not Connected		
SB	C GENERAL				
С	lassify By Proxy Set	E	nable		,
S	BC Operation Mode	B	32BUA		,
s	BC Client Forking Mode	s	Sequential		

The configured IP Groups are shown in the figure below:

Figure 3-23: Configured IP Groups in IP Group Table

IP Groups (4)									
+ New Ed	it 🛛 🗍 面		14	<a 1="" 1<="" of="" page="" th=""><th>►> ►I Show 10</th><th> records per page </th><th>2</th><th></th><th></th>	►> ►I Show 10	 records per page 	2		
INDEX 🗢	NAME	SRD	TYPE	SBC OPERATION MODE	PROXY SET	IP PROFILE	MEDIA REALM	SIP GROUP NAME	CLASSIFY BY PROXY SET
0	Default_IPG	DefaultSRD (#	Server	Not Configured	ProxySet_0				Disable
1	Genesys	DefaultSRD (#	Server	B2BUA	Genesys	Genesys	MR-SBC2Genesys		Enable
2	ITSP	DefaultSRD (#	Server	B2BUA	ITSP	PostItaliane	MR-SBC2ITSP		Enable

3.6 Step 6: Configure IP Profiles

This step describes how to configure IP Profiles. In this interoperability test topology, the IP Profile defines a set of call capabilities relating to signaling (e.g., SIP message terminations such as REFER) and media (e.g., coder and transcoding method).

In this interoperability test topology, IP Profiles were configured for the following IP entities:

- Genesys Contact Center
- ITSP SIP trunk



Note: The IP Profile index values were assigned to the IP Groups in the previous step (see Section 3.5 on page 29).

To configure IP Profiles:

- Open the IP Profile Settings page (Setup menu > Signaling & Media tab > Coders & Profiles folder > IP Profiles table).
- 2. Click New.
- 3. Configure the parameters as follows:

Parameter	Value
Index	1
Profile Name	Genesys (arbitrary descriptive name)
Allowed Coders Group ID	'Coders Group 1'
Extension Coders Group	'AudioCodersGroup_0'
RFC 2833 DTMF Payload Type	101

Figure 3-24: Configure IP Profile for Genesys Contact Center

GENERAL	
Index	1
• Name	Genesys
Created by Routing Server	No
SBC MEDIA	
SBC MEDIA	RTP Mediation
SBC MEDIA Mediation Mode Extension Coders Group	RTP Mediation #0 [AudioCodersGroups_0]
SBC MEDIA Mediation Mode Extension Coders Group Allowed Audio Coders	RTP Mediation #0 [AudioCodersGroups_0] #0 [Genesys]

- 4. Configure an IP Profile for the ITSP SIP Trunk:
 - a. Click New.
 - **b.** Configure the parameters as follows:

Parameter	Value
Index	2
Profile Name	ITSP (arbitrary descriptive name)
Remote REFER Behavior	'Handle Locally'
Session Expires Mode (not supported by Acantho; interoperability was completed with this parameter set to Transparent)	'Transparent': one of Remote Update Support or Remote Re-INVITE support must be supported to refresh the session (default). 'Not Supported': If Remote UPDATE/Re- INVITE is 'Not Supported' . Session Expires
	Mode should also be made 'Not Supported'.
Remote 3xx Mode	'Handle Locally'
Extension Coders Group	'AudioCodersGroup_0'

Figure 3-25: Configure IP Profile for ITSP SIP Trunk

IF FIOINES			
GENERAL			
Index		2	
→ Name		ITSP	
Created by Routing Server		No	
SBC FORWARD AND TRANSFER			
Remote REFER Mode	• Han	die Locally	,
Remote REFER Mode Remote Replaces Mode	 Han Stan 	die Locally dard	•
Remote REFER Mode Remote Replaces Mode Play RBT To Transferee	 Han Stan No 	die Locaily dard	

Note:

• Acantho does not support SIP 302 Moved Temporarily response.



- The SBC may handle the 302 Moved Temporarily locally; the 302 Moved Temporarily response from the SIP server is accepted by the SBC, and then the SBC sends an INVITE to the temporary external number via the ITSP SIP Trunk. NOTIFY messages are passed to the SIP server to provide status on the pending connection. The call is anchored by the SBC.
- The 302 Moved Temporarily handling on the SBC is configured by setting SBCRemote3xxBehavior = 'handle locally' in the IP Profile for the ITSP IP Group, and by setting an IP2IP route for calls originating from the ITSP IP Group to trigger on 3xx/REFER and route to ITSP IP Group.

Note:

• The preferred method is that the SBC should be configured to handle the REFER locally. When the SBC receives the REFER, the SBC sends an INVITE to the new destination via the ITSP SIP Trunk or via the Genesys SIP server according to routing rules. NOTIFY messages are passed to the SIP server to provide status on the pending connection. The call is anchored by the SBC.

The REFER handling on the SBC is configured by setting *SBCRemote3xxBehavior* = 'handle locally' in the IP Profile for the ITSP IP Group, and by setting an IP-to-IP route for calls originating from the ITSP IP Group to trigger on 3xx/REFER and route to the ITSP IP Group.

The configured IP Groups are shown in the figure below:

Figure 3-26: Configured IP Profiles in IP Profile Table

IP Profiles (3)	
+ New Edit 🗍 💼	Here Page 1 of 1 → → Show 10 ▼ records per page
INDEX 🗢	NAME
1	Genesys
2	ITSP

3.7 Step 7: Configure Coders

This section shows how to configure an Allowed Coders Group to ensure that voice sent to the ITSP SIP Trunk uses the preferred coders only. The Acantho SIP Trunk supports G G.711A-law and G.729 coders. The Genesys Contact Center supports G.729, G.711A-law, G.711U-law, G.723 and GSM coders. Since both entities have common codecs supported, transcoding is not required. However, to ensure transcoding is not used, IP Profiles for both the ITSP and Genesys trunks are configured to use the same Allowed Coders Group ID (configured in previous section).

If support for different coders is required in the deployment, an SBC transcoding configuration is required (refer to the *SBC User's Manual*) for Coder Transcoding configuration.

- > To set a preferred coder for the ITSP & Genesys Trunk:
- Open the Allowed Coders Group page (Setup menu > Signaling & Media tab > Coders & Profiles folder > Allowed Audio Coders Groups).
- 2. Configure an Allowed Coders Group as follows:

Parameter	Value
Allowed Coders Group ID	1
Coder Name	G.729
Coder Name	G.711A-Law





3. Submit

4. Repeat for Allowed Coders Group ID 2 (or set to use the same Allowed Audio Coders Group in the IP Profiles for the ITSP & SIP Server).

3.8 Step 8: Configure IP-to-IP Call Routing Rules

This step describes how to configure IP-to-IP call routing rules. These rules define the routes for forwarding SIP messages (e.g., INVITE) received from one IP entity to another. The SBC selects the rule whose configured input characteristics (e.g., IP Group) match those of the incoming SIP message. If the input characteristics do not match the first rule in the table, it is compared to the second rule, and so on, until a matching rule is located. If no rule is matched, the message is rejected. The routing rules use the configured IP Groups to denote the source and destination of the call. As configured in Section 3.5 on page 29, IP Group 1 represents the Genesys Contact Center, and IP Group 2 represents the ITSP SIP Trunk.

For the interoperability test topology, the following IP-to-IP routing rules are configured to route calls between Genesys Contact Center (LAN) and ITSP SIP Trunk (WAN):

- Terminate SIP OPTIONS messages on the SBC that are received from the LAN/WAN
- Route calls from Genesys Contact Center to the ITSP SIP Trunk
- Calls from ITSP SIP Trunk to Genesys Contact Center
- Trigger rules for handling SIP 3xx/REFER for local agents and external DNs
- > To configure IP-to-IP routing rules:
- Open the IP-to-IP Routing Table page (Setup menu > Signaling & Media tab > SBC folder > Routing > IP-to-IP Routing).
- 2. Configure the rules as below or per the required routing plan: (Note: routing associated with Remote Agents will be covered in the next section).

Parameter	Value
Index	0
Route Name	OPTIONS termination (arbitrary descriptive name)
Request Type	OPTIONS
Destination Type	Dest Address
Destination Address	internal

Parameter	Value
Index	1
Route Name	3xx/Refer Trigger (arbitrary descriptive name)
Source IP Group ID	ITSP
Call Trigger	3xx or REFER
ReRoute IP Group	ITSP

Parameter	Value
Index	3
Route Name	3xx/Refer Trigger (arbitrary descriptive name)
Source IP Group ID	Genesys

Call Trigger	3xx or REFER
ReRoute IP Group	Genesys

Parameter	Value
Index	4
Route Name	ITSP2Genesys (arbitrary descriptive name)
Source IP Group ID	ITSP
Destination Type	IP Group
Destination IP Group ID	Genesys

Parameter	Value
Index	6
Route Name	Genesys2ITSP (arbitrary descriptive name)
Source IP Group ID	Genesys
Destination Type	IP Group
Destination IP Group ID	ITSP

Figure 3-28: Configure IP-to-IP Routing Rules

IP-to-IP Ro	outing (8)								
+ New Edi	t Insert 🕈 🖡	â	14	< Page 1 of 1	►> ►I Show 10	 records per pag 	e		
INDEX 🗢	NAME	ROUTING POLICY	ALTERNATIVE ROUTE OPTIONS	SOURCE IP GROUP	REQUEST TYPE	SOURCE USERNAME PREFIX	DESTINATION USERNAME PREFIX	DESTINATION TYPE	DESTINATION IP GROUP
0	Options	Default_SBCRoutir	Route Row	Any	OPTIONS	*	*	Dest Address	-
1	3xx/Refer Trigger	Default_SBCRoutir	Route Row	ITSP	All	*	0825*	IP Group	ITSP
2	3xx Refer Remote	Default_SBCRoutir	Route Row	Genesys	All	*	*	IP Group	Genesys
3	3xx/Refer to Gene	Default_SBCRoutir	Route Row	Any	All	*	*	IP Group	Genesys
4	ITSP->Genesys	Default_SBCRoutir	Route Row	ITSP	All	*	*	IP Group	Genesys
5	Genesys->AHA	Default_SBCRoutir	Route Row	Genesys	All	*	*	All Users	
6	Genesys->ITSP	Default_SBCRoutir	Route Row	Genesys	All	*	*	IP Group	ITSP
7	AHA->Genesys	Default_SBCRoutir	Route Row	AHA	All	×	*	IP Group	Genesys



Note: The routing configuration may change according to your specific deployment topology, e.g., the deployment specification may indicate that OPTIONS termination should pass through the SBC to the far end, or, other criteria listed in the table may be used for determining routing.

3.9 Step 9: Configure IP-to-IP Manipulation Rules

This step describes how to configure IP-to-IP manipulation rules. These rules manipulate the source and / or destination number. The device supports SIP URI user part (source and destination) manipulations for inbound and outbound routing. The manipulation rules use the configured IP Groups to denote the source and destination of the call.



Note The following manipulation rules are only examples. Adapt the manipulation table according to your environment dial plan.

Manipulations may be required to strip digits for an access code to the SBC from the Genesys SIP Server or for removing the country code and/or leading prefixes to map ITSP numbers to the DNs used in the Genesys environment.

- To configure a number manipulation rule to remove the trunk access code from messages arriving from Genesys destined for the ITSP:
- Open the IP-to-IP Inbound Manipulation page (Setup menu > Signaling & Media tab > SBC folder > Manipulation > Inbound Manipulations).
- 2. Click Add.
- 3. Click the **Rule** tab, and then configure the parameters as follows:

Parameter	Value
Index	1
Manipulation Name (optional)	remove access code
Source IP Group ID	Genesys
Request Type	All
Manipulated URI	Destination

Figure 3-29: Configure IP-to-IP Inbound Manipulation Rule

und Manipulations					[remove acce
GENERAL			ACTION		
Index	0	\longrightarrow	Manipulated Item	 Destination 	•
• Name	remove access code	\rightarrow	Remove From Left	• 2	
Additional Manipulation	No	τ.	Remove From Right	0	
Manipulation Purpose	Normal	•	Leave From Right	255	
			Prefix to Add		
MATCH			Suffix to Add		
Request Type	All	*			
Source IP Group	#1 [Genesys]	✓ View			
Source Username Prefix	*				
Source Host	*				
 Destination Username Prefix 	e 81xxxxxxxxxxx				
Destination Host	*				



Figure 3-30: Example of Configured IP-to-IP Inbound Manipulation Rules

Inbou	ind Manipula	tions (1) ,									
+ New	Edit Insert	+ + □		14 - 44	Page 1 of	1 🍉 🖻 Sho	ow 10 ▼ reco	rds per page			
INDEX	NAME	ROUTING POLICY	ADDITIONAL MANIPULATI	MANIPULATI PURPOSE	SOURCE IP GROUP	SOURCE USERNAME PATTERN	DESTINATIOI USERNAME PATTERN 🜩	MANIPULATE ITEM	REMOVE FROM LEFT	REMOVE FROM RIGHT	LEAVE FROM RIGHT
1	remove acces	Default_SBCR	No	Normal	Genesys	*	79390599699	Destination	4	0	255

#1[remove access code] = # [Default_SBCRoutingPolicy]

GENERAL			ACTION	
Name	remove access code		Manipulated Item	Destination
Additional Manipulation	No		Remove From Left	• 4
Manipulation Purpose	Normal		Remove From Right	0
			Leave From Right	255
MATCH			Prefix to Add	
Request Type	All		Suffix to Add	
Source IP Group	• #[Genesys]	View		
Source Username Pattern	*			
Source Host	*			
Destination Username Pattern	• 7939059969999x#			
Destination Host	*			

3.10 Step 10: Perform SIP Header Message Manipulations

This step describes the SBC configuration for SIP Message Header Manipulations. A Message Manipulation rule defines a manipulation sequence for SIP messages. SIP message manipulation enables the normalization of SIP messaging fields between communicating network segments. For example, this functionality allows ITSPs to design policies on the SIP messaging fields that must be present before a SIP call enters the ITSP network. Similarly, the enterprise may have policies for the information that can enter or leave its network for policy and security reasons from an ITSP.

Each Message Manipulation rule is configured with a Manipulation Set ID. Sets of manipulation rules are created by assigning each of the relevant Message Manipulation rules to the same Manipulation Set ID. The Manipulation Set ID is used to assign the rules to the specific calls by designating that set ID in the preferred IP Group table. Message rules can be applied pre- (inbound manipulation) or post-classification (outbound manipulation).

For this interoperability test, message manipulations were applied only to the outbound messages, to the ITSP SIP trunk, for the purposes of modifying existing SIP headers, topology hiding, and adding new SIP headers.

The following procedure generically describes how to configure Message Manipulation rules in the Web interface of the SBC.

- > To configure SIP Message Manipulation rules:
- 1. Open the IP-to-IP Inbound Manipulation page (Setup menu > Signaling & Media tab > Message Manipulation folder > Message Manipulations).
- 2. Click **Add**; this screen opens:

Message	Manipulations				- x
	GENERAL		ACTION		
	Index	1	Action Subject		
	Name		Action Type	Add 🔻	
	Manipulation Set ID	0	Action Value		
	Row Role	Use Current Condition			
	MATCH				
	Message Type				
	Condition				
		Car	cel APPLY		

Figure 3-38: Configure IP-to-IP Message Manipulation Rule

- **3.** Configure a Message Manipulation rule according to the parameters described in the table below.
- 4. Click **Submit** and then save ("burn") your settings to flash memory.

The table below shows the message manipulation used in the interoperability test scenario.

Figure 3-38: Message Manipulation

[Messa	geManipulations	1						
Index	Manipulation Name	Man Set ID	Message Type	Condition	Action Subject	Action Type	Action Value	Row Role
1	modify outbound Request-URI	5	Any		header.request-uri.url.host	2 (Modify)	'sipx.acantho.it'	0 (Use Current Condition)
2	Normalize outbound Request-URI	5	Any		header.request-uri	7 (Normalize)		0 (Use Current Condition)
3	modify from host (so as to keep the tag)	5	Any		header.from.url.host	2 (Modify)	'sipx.acantho.it'	0 (Use Current Condition)
4	modify outbound To host	5	Any		header.to.url.host	2 (Modify)	'sipx.acantho.it'	0 (Use Current Condition)
5	modify PAI for REFERs	5	Any		header.p-asserted-identity	2 (Modify)	' <sip:0599699990@sipx.acantho.it>'</sip:0599699990@sipx.acantho.it>	0 (Use Current Condition)
6	set contact to referred-by if exists	5	Any	header.Referred-By exists	header.contact.url.host	2 (Modify)	header.referred-by.url.host	0 (Use Current Condition)
7	contact host; must be 173.x	5	Any		header.contact.url.host	2 (Modify)	'173.227.254.67'	0 (Use Current Condition)
8	add DH if does not exist	5	Any	header.diversion! exists	header.diversion	0 (Add)	<tel: 0599699990@sipx.acantho.it>;reason=unknown;counter=1;screen=no;privacy=off</tel: 	0 (Use Current Condition)
9	correct hostname on diversion header	5	Any		header.diversion.url.host	2 (Modify)	'sipx.acantho.it'	0 (Use Current Condition)

The outbound manipulation rules are not applied for a particular IP Group until the Manipulation Set is assigned as an inbound or outbound manipulation set. In the interoperability test scenario, Manipulation Set 5 was applied to the ITSP IP Group.

3.11 Step 11: Configure Remote Agents

This step describes the SBC configuration for Remote User Agents. Remote Agent DNs are registered on the SBC or through the SBC to the Genesys SIP Server. In the interoperability testing scenario, the Remote Agents are configured on a new Signaling Routing Domain over an existing untrusted interface.

3.11.1 Step 11a: Configure Media Realm for a Remote Agent

This step describes how to configure Media Realms for a Remote Agent. Remote Agents interact with the SBC over the untrusted interface. Use the Media Realm table to designate the media port range that will be associated with the Remote Agents.

> To configure the Media Realm for a Remote Agent:

1. Open the Media Realms table (Setup menu > Signaling & Media tab > Core Entities folder > Media Realms).

GENERAL			QUALITY OF EXPERIENCE			
Index	3		QoE Profile	-	•	View
Name	MR3_RemoteAgents		Bandwidth Profile		•	View
Topology Location	Down	•				
IPv4 Interface Name	#1 [PUBSIP]	▼ View				
Port Range Start	10000					
Number Of Media Session Legs	100					
Port Range End	10999					
Default Media Realm	No	•				

Figure 3-31: Configure a Remote Agent Media Realm

The figure below shows an example of a configured Media Realm Table including the Media Realm for Remote Agents.

Media Realms (4)											
New Edit Edit Edit Edit Fage f											
INDEX 🗢	NAME	IPV4 INTERFACE NAME	PORT RANGE START	NUMBER OF MEDIA SESSION LEGS	PORT RANGE END	DEFAULT MEDIA REALM					
0	DefaultRealm	NETMGT	62000	100	62999	Yes					
1	MR-SBC2Genesys	NETMGT	8000	100	8999	No					
2	MR-SBC2ITSP	PUBSIP	6000	100	6999	No					
3	MR3_RemoteAgents	PUBSIP	10000	100	10999	No					

Figure 3-32: Configure a Remote Agent Media Realm

Cancel APPLY

3.11.2 Step 11b: Configure SIP Signaling Interfaces for Remote Agents

This step describes how to create a new SIP Signaling interface on the Untrusted Network Interface for the Remote Agents.

- > To configure SIP interfaces for a Remote Agent:
- 1. Open the SIP Interfaces table (Setup menu > Signaling & Media tab > Core Entities folder > SIP Interfaces)
- 2. Configure a SIP interface for the LAN:

Parameter	Value
Index	3
Interface Name	RemoteAgents (arbitrary descriptive name)
Network Interface	PUBSIP
Application Type	SBC
UDP	5080
SRD	DefaultSRD

The configured SIP Interfaces Table, including the Remote Agents, is shown in the figure below:

Figure 3-33: Configured SIP Interfaces for Remote Agents in SIP Interface Table

+ New Edit			re <e 1="" of<="" page="" th=""><th colspan="7">A see 1 of 1 we set Show 10 V records per page</th></e>	A see 1 of 1 we set Show 10 V records per page						
INDEX 🗢	NAME	SRD	NETWORK INTERFACE	APPLICATION TYPE	UDP PORT	TCP PORT	TLS PORT	ENCAPSULATING PROTOCOL	MEDIA REALM	
0	SIPInterface_0	DefaultSRD (#0)	NETMGT	GW	0	0	0	No encapsulation		
1	Genesys	DefaultSRD (#0)	NETMGT	SBC	5060	5060	0	No encapsulation	MR-SBC2Genesys	
2	ITSP	DefaultSRD (#0)	PUBSIP	SBC	5070	0	0	No encapsulation	MR-SBC2ITSP	
3	RemoteAgents	DefaultSRD (#0)	PUBSIP	SBC	5080	0	0	No encapsulation	MR-SBC2ITSP	

3.11.3 Step 11c: Configure Remote (User) Agents IP Group

This step describes how to configure remote (User) agents IP Group. In the interoperability test topology, an IP User Group was configured for Remote (User) Agents registering from the WAN.

To configure an IP User Group:

- Open the IP Group Table page (Setup tab > Signaling & Media tab > Core Entities folder > IP Groups).
- 2. Configure an IP Group for the Remote Agents as follows:

Parameter	Value
Index	3
Туре	User
Description	Remote Agents (arbitrary descriptive name)
SRD	DefaultSRD
Media Realm Name	MR3-RemoteAgents
IP Profile ID	MR3-RemoteAgents

The configured IP Groups are shown in the figure below:

Figure 3-34: Configured IP Group for Remote Users in IP Group Table

IP Groups	(4)										
+ New Edit	🖬		14	<a 1="" 1<="" of="" page="" th=""><th>►> ► Show 10</th><th> records per page </th><th>e</th><th></th><th></th><th></th><th>Q</th>	►> ► Show 10	 records per page 	e				Q
INDEX 🗢	NAME	SRD	TYPE	SBC OPERATION MODE	PROXY SET	IP PROFILE	MEDIA REALM	SIP GROUP NAME	CLASSIFY BY PROXY SET	INBOUND MESSAGE MANIPULATION SET	OUTBOUND MESSAGE MANIPULATION SET
0	Default_IPG	DefaultSRD (#	Server	Not Configured	ProxySet_0				Disable	-1	-1
1	Genesys	DefaultSRD (#	Server	B2BUA	Genesys	Genesys	MR-SBC2Genesys		Enable	-1	8
2	ITSP	DefaultSRD (#	Server	B2BUA	ITSP	ITSP	MR-SBC2ITSP		Enable	2	5
3	RemoteAgents	DefaultSRD (#	User	B2BUA	-	Remote User	MR-SBC2ITSP		Disable	-1	-1

3.11.4 Step 11d: Configure IP Profiles for Remote Agents

This step describes how to configure IP Profiles for the Remote (User) Agents.



Note: The IP Profile index values were assigned to the IP Groups in the previous step (see Section 3.5 on page 29).

To configure IP Profile for the Remote (User) Agent:

 Open the IP Profile Settings page (Setup menu > Signaling & Media tab > Coders & Profiles folder > IP Profiles).



Note: Presently, no parameters require configuration on the **SBC** tab for the Remote Agents IP Profile. All parameters are set to their default values. The IP Profile is created for the purpose of future configuration only.

The configured IP Remote Agent Groups are shown in the figure below:

Figure 3-35: Configured IP Profiles in IP Profile Table

IP Profiles (3)		
+ New Edit 🗎 🖬 🛤	Page 1 of 1 >> > Show 10	
INDEX 🗢	NAME	PROFILE PREFERENCE
1	Genesys	1
2	ITSP	1
3	Remote User	1

3.11.5 Step 11e: Configure Classification Table for Remote Agents

This step describes how to configure the Classification table for Remote Agents. The Classification rules classify incoming SIP dialog-initiating requests to an IP Group from where the SIP dialog request was received. The identified IP Group is then used in the manipulation and routing processes. For Remote Users arriving on an interface with multiple IP Groups, the classification rules will determine the origination IP Group.

> To configure IP Profile for the Remote (User) Agent:

- Open the Classification Table page (Setup menu > Signaling & Media tab > SBC folder > Classification).
- 2. Configure the parameters as follows:

Parameter	Value
Index	1
Classification Name	Remote Users (arbitrary descriptive name)
Source SIP Interface	RemoteAgents
Source IP Group ID	Remote Agents
Action Type	Allow

Classific	ation						[AHA]	
		SRD	#0 [DefaultSRD]				
	MATCH			ACTION				
	Index	0	•	Action Type	Allow			•
≻	Name	• AHA		Destination Routing Policy	-		•	View
≻	Source SIP Interface	 #3 [RemoteAgents] 	▼ <u>View</u>	Source IP Group	• #3 [Remo	teAgents]	•	View
	Source IP Address			IP Profile			•	View
	Source Transport Type	Any	•					
	Source Port	0						
	Source Username Prefix	*						
	Source Host	*						
	Destination Username Prefix	*						
	Destination Host	*						

Figure 3-36: Configure Rule Tab of the Classification Table

Figure 3-37: Configured Classification Rule for Remote (Users) Agents

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INDEX	NAME	SRD ≑	SOURCE SIP INTERFACE	SOURCE USERNAME PREFIX	SOURCE HOST	DESTINATION USERNAME PREFIX	DESTINATION HOST	ACTION TYPE	SOURCE IP GROUP		
0	AHA	DefaultSRD (#0)	RemoteAgents	*	*	*	*	Allow	RemoteAgents		

3.11.6 Step 11f: Configure IP-to-IP Call Routing Rules for Remote (User) Agent

This step describes how to configure additional IP-to-IP call routing rules that are required for routing calls between the Remote Users (classified to a particular IP Group via the Classification table in Section 3.11.5 on page 44) and the Genesys SIP Server.

The following IP-to-IP call routing rules were configured (see Section 3.8 on page 35):

- Terminate SIP OPTIONS messages on the SBC that are received from the LAN
- Calls from Genesys Contact Center to ITSP SIP Trunk
- Calls from ITSP SIP Trunk to Genesys Contact Center
- Trigger rules for handling SIP 3xx/REFER for local agents and external DNs

For the interoperability test topology, IP-to-IP routing rules were configured to route SIP messages between the Remote (User) Agents and the Genesys SIP Server, and to ensure that the messages are routed back to the correct user group to reach the intended agent.

> To configure IP-to-IP routing rules:

- Open the IP-to-IP Routing Table page (Setup menu > Signaling & Media tab > SBC folder > Routing > IP-to-IP Routing).
- 2. Configure a rule to route between the Remote Agent and the Genesys SIP Server as follows:

Parameter	Value
Index	10
Route Name	Genesys->AHA (arbitrary descriptive name)
Source IP Group ID	Genesys
Destination Type	All Users

Parameter	Value
Index	6
Route Name	AHA->Genesys
Source IP Group ID	RemoteAgents
Destination Type	IP Group
Destination IP Group ID	Genesys

The configured IP-to-IP routing rules including rules for Remote Agents are shown in the figure below.

ID to ID Douting (9)

Figure 3-38: Configured IP-to-IP Routing Rules in IP-to-IP Routing Table

ii -to-ii Nouti	ing (o)											
+ New Edit	New Edit Insert + Im Page for f1 → → Show 10 ▼ records per page											
INDEX 🗢	NAME	ROUTING POLICY	ALTERNATIVE ROUTE OPTIONS	SOURCE IP GROUP	REQUEST TYPE	SOURCE USERNAME PATTERN	DESTINATION USERNAME PATTERN	DESTINATION TYPE	DESTINATION IP GROUP	DESTINATION SIP	DESTINATION ADDRESS	
0	Options	Default_SBCRoutingF	Route Row	Any	OPTIONS	*	*	Dest Address			internal	
1	3xx/Refer to Genesys	Default_SBCRoutingF	Route Row	Any	All	*	*	Request URI				
2	3xx/Refer Trigger	Default_SBCRoutingF	Route Row	Any	All	*	*	IP Group	ITSP			
3	3xx Refer Remote Ag	Default_SBCRoutingF	Route Row	Genesys	All	*	*	Request URI				
4	ITSP->Genesys	Default_SBCRoutingF	Route Row	ITSP	All	*	*	IP Group	Genesys			
5	Genesys->AHA	Default_SBCRoutingF	Route Row	Genesys	All	*	*	All Users				
6	Genesys->ITSP	Default_SBCRoutingF	Alternative Route Ign	Genesys	All	*	*	IP Group	ITSP			
7	AHA->Genesys	Default_SBCRoutingF	Route Row	RemoteAgents	All	*	*	IP Group	Genesys			

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Note: The routing configuration may change according to your specific deployment topology. For example, the deployment specification may indicate a particular set of numbers that should be routed to the User group; however, a particular deployment may handle the routing of Remote Agents over a different trunk from the Genesys SIP Server or may require the use of other criteria/filters in the routing table.

3.12 Step 12: Reset the SBC

After completing the configuration of the SBC, save ("burn") the configuration to the SBC's flash memory with a reset for the settings to take effect.

> To save the configuration to flash memory and reset the device:

1. Click the Reset button on the top right of the web GUI page.

Figure 3-39: Resetting the SBC

Maintenance Actions				
RESET DEVICE			LOCK / UNLOCK	
Reset Device	Reset		Lock	LOCK
Save To Flash	Yes		Graceful Option	No
Graceful Option	No		Gateway Operational State	UNLOCKED
For Reset Device : If you choose not to save the device's configuration to flash memory, all changes made since the last time the configuration was saved will be lost after the device is reset.				

For Save Configuration: Saving configuration to flash memory may cause some temporary degrad in voice quality, therefore, it is recommended to perform this during low-traffic periods

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

A AudioCodes ini File

This appendix shows the *ini* configuration file of the SBC, corresponding to the Web-based configuration described in Section 3 on page 15.



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

```
***********
;** Ini File **
**********
;Board: M500L
;HW Board Type: 72 FK Board Type: 85
;Serial Number: 6282273
; Product Key: r6wmr5to25sibANud21Vu6R162MFcNBMb2x3ehcs
;Slot Number: 1
;Software Version: 7.20A.250.256
;DSP Software Version: 5014AE3 R => 710.11
;Board IP Address: 192.168.20.83
;Board Subnet Mask: 255.255.255.0
;Board Default Gateway: 192.168.20.1
;Ram size: 512M Flash size: 64M Core speed: 500Mhz
;Num of DSP Cores: 3
;Num of physical LAN ports: 4
; Profile: NONE
;;;Key features:;Board Type: M500L ;DATA features: ;DSP Voice features:
RTCP-XR ;Security: IPSEC MediaEncryption StrongEncryption
EncryptControlProtocol ;Channel Type: DspCh=90 IPMediaDspCh=90 ;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 ; IP Media: VXML ; PSTN Protocols: IUA=2 ; QOE features:
VoiceQualityMonitoring MediaEnhancement ;E1Trunks=1 ;T1Trunks=1 ;FXSPorts=4
;FXOPorts=0 ;Control Protocols: MSFT TRANSCODING=100 FEU=100 TestCall=20
EMS WebRTC MGCP SIP SBC=200 ;Default features:;Coders: G711 G726;
;----- HW components -----
;
; Slot # : Module type : # of ports
; 1 : FALC56 : 1
; 2 : FXS : 4
; 3 : Empty
;-----
[SYSTEM Params]
SyslogServerIP = 172.18.109.65
EnableSyslog = 1
;NTPServerIP abs is hidden but has non-default value
NTPServerUTCOffset = -18000
ENABLEPARAMETERSMONITORING = 1
```

Caudiocodes

```
ActivityListToLog = 'pvc', 'afl', 'dr', 'fb', 'swu', 'naa', 'spc', 'll',
'cli', 'ae'
DebugRecordingDestIP = 192.168.10.143
;VpFileLastUpdateTime is hidden but has non-default value
DayLightSavingTimeStart = '03:SUN/02:02:00'
DayLightSavingTimeEnd = '11:SUN/01:02:00'
DayLightSavingTimeEnable = 1
TR069ACSPASSWORD = '$1$qQ=='
TR069CONNECTIONREQUESTPASSWORD = '$1$qQ=='
NTPServerIP = '192.168.10.14'
;LastConfigChangeTime is hidden but has non-default value
;BarrierFilename is hidden but has non-default value
;TLSPkeyPassphrases is hidden but has non-default value
;LocalTimeZoneName is hidden but has non-default value
PM VEDSPUtil = '1,162,180,15'
[BSP Params]
PCMLawSelect = 3
UdpPortSpacing = 10
ProductKey = 'r6wmr5to25sibANud21Vu6R162MFcNBMb2x3ehcs'
EnterCpuOverloadPercent = 99
ExitCpuOverloadPercent = 95
[Analog Params]
[ControlProtocols Params]
AdminStateLockControl = 0
QOEServerIp = 10.38.5.73
QOEInterfaceName = 'NETMGT'
[PSTN Params]
V5ProtocolSide = 0
[Voice Engine Params]
BrokenConnectionEventTimeout = 3000
NatMode = 3
PLThresholdLevelsPerMille 0 = 5
PLThresholdLevelsPerMille<sup>-1</sup> = 10
PLThresholdLevelsPerMille 2 = 20
PLThresholdLevelsPerMille 3 = 50
CallProgressTonesFilename = 'usa tones 13.dat'
[WEB Params]
;HTTPSPkeyFileName is hidden but has non-default value
;HTTPSCertFileName is hidden but has non-default value
[SIP Params]
MEDIACHANNELS = 500
GWDEBUGLEVEL = 5
MSLDAPPRIMARYKEY = 'telephoneNumber'
ENERGYDETECTORCMD = 587202560
ANSWERDETECTORCMD = 10486144
```

;GWAPPCONFIGURATIONVERSION is hidden but has non-default value

```
[SNMP Params]
SNMPManagerIsUsed 0 = 1
SNMPManagerIsUsed 1 = 0
SNMPManagerIsUsed 2 = 0
SNMPManagerIsUsed 3 = 0
SNMPManagerIsUsed 4 = 0
SNMPManagerTableIP 0 = 10.38.5.73
SNMPManagerTableIP<sup>1</sup> = 0.0.0.0
SNMPManagerTableIP_2 = 0.0.0.0
SNMPManagerTableIP_3 = 0.0.0.0
SNMPManagerTableIP 4 = 0.0.0.0
[ PhysicalPortsTable ]
FORMAT PhysicalPortsTable Index = PhysicalPortsTable Port,
PhysicalPortsTable Mode, PhysicalPortsTable SpeedDuplex,
PhysicalPortsTable PortDescription, PhysicalPortsTable GroupMember;
PhysicalPortsTable 0 = "GE_1", 1, 4, "User Port #0", "GROUP_1";
PhysicalPortsTable 1 = "GE_2", 0, 4, "User Port #1", "None";
PhysicalPortsTable 2 = "GE_4_3", 1, 4, "User Port #2", "GROUP_2";
PhysicalPortsTable 3 = "GE_4_4", 0, 4, "User Port #3", "None";
[ \PhysicalPortsTable ]
[ EtherGroupTable ]
FORMAT EtherGroupTable Index = EtherGroupTable Group, EtherGroupTable Mode,
EtherGroupTable Member1, EtherGroupTable Member2;
EtherGroupTable 0 = "GROUP_1", 1, "GE_1", "";
EtherGroupTable 1 = "GROUP_2", 1, "GE_4_3", "";
EtherGroupTable 2 = "GROUP_3", 0, "", "";
EtherGroupTable 3 = "GROUP_4", 0, "", "";
[ \EtherGroupTable ]
[ DeviceTable ]
FORMAT DeviceTable Index = DeviceTable VlanID,
DeviceTable UnderlyingInterface, DeviceTable DeviceName,
DeviceTable Tagging, DeviceTable MTU;
DeviceTable 0 = 1, "GROUP 1", "Trusted", 0, 1500;
DeviceTable 1 = 254, "GROUP 2", "Untrusted", 0, 1500;
[ \DeviceTable ]
[ InterfaceTable ]
FORMAT InterfaceTable Index = InterfaceTable ApplicationTypes,
InterfaceTable InterfaceMode, InterfaceTable IPAddress,
InterfaceTable PrefixLength, InterfaceTable Gateway,
InterfaceTable InterfaceName, InterfaceTable PrimaryDNSServerIPAddress,
InterfaceTable SecondaryDNSServerIPAddress,
InterfaceTable_UnderlyingDevice;
```



```
InterfaceTable 0 = 6, 10, 192.168.20.83, 24, 192.168.20.1, "NETMGT",
0.0.0.0, 0.0.0.0, "Trusted";
InterfaceTable 1 = 5, 10, 173.227.254.67, 26, 173.227.254.66, "PUBSIP",
8.8.4.4, 8.8.8.8, "Untrusted";
[ \InterfaceTable ]
[ ACCESSLIST ]
FORMAT ACCESSLIST Index = ACCESSLIST Source IP, ACCESSLIST Source Port,
ACCESSLIST PrefixLen, ACCESSLIST Start Port, ACCESSLIST End Port,
ACCESSLIST Protocol, ACCESSLIST Use Specific Interface,
ACCESSLIST Interface ID, ACCESSLIST Packet Size, ACCESSLIST Byte Rate,
ACCESSLIST Byte Burst, ACCESSLIST Allow type enum, ACCESSLIST Description;
ACCESSLIST 0 = "83.216.191.70", 0, 32, 0, 65535, "Any", 1, "PUBSIP", 0, 0,
0, 0, "Rule#0";
ACCESSLIST 1 = "71.65.240.156", 0, 32, 0, 65535, "Any", 1, "PUBSIP", 0, 0,
0, 0, "Rule#1";
ACCESSLIST 4 = "0.0.0.0", 0, 0, 0, 65535, "Any", 1, "PUBSIP", 0, 0, 0, 1,
"Rule#4";
[ \ACCESSLIST ]
[ WelcomeMessage ]
FORMAT WelcomeMessage Index = WelcomeMessage Text;
WelcomeMessage 2 = "** This SBC is being used for Acantho IOT **";
WelcomeMessage 3 = "** Please do not make changes to this device **";
WelcomeMessage 4 = "** Contact: Leo Mallol 919.287.3491 **";
WelcomeMessage 5 = "** **";
WelcomeMessage 6 = "** Version: 7.20A.250.256 **";
WelcomeMessage 7 = "** Public IP Address: 173.227.254.67 **";
[ \WelcomeMessage ]
[ WebUsers ]
FORMAT WebUsers Index = WebUsers Username, WebUsers Password,
WebUsers Status, WebUsers PwAgeInterval, WebUsers SessionLimit,
WebUsers CliSessionLimit, WebUsers SessionTimeout, WebUsers_BlockTime,
WebUsers UserLevel, WebUsers PwNonce, WebUsers SSHPublicKey;
WebUsers 0 = "Admin",
"$1$FCJ0dCYpeC19JXwsfhcRF0ZARkUfERoYEklISB4HBQIEBwEBD1wIXAIFXA1deXdzInd0dCV
5en18en13fmBjZ2E=", 1, 0, 2, -1, 15, 60, 200,
"4c2f2a78fb659495c1d088af73085f20", "";
WebUsers 1 = "User",
"$1$30vk7r6B1tXW0NfTgtmI3dzYjNaJlJSXysSUx5aezJvDmM3HzzA0YzRqMzU1PjloPDo5aGt
1I3R3IXchICAqIyo=", 1, 0, 2, -1, 15, 60, 50,
"c4a93bcd82e88f303f891540d2c9d5e2", "";
[ \WebUsers ]
```

[TLSContexts]

FORMAT TLSContexts Index = TLSContexts Name, TLSContexts TLSVersion, TLSContexts DTLSVersion, TLSContexts ServerCipherString, TLSContexts ClientCipherString, TLSContexts RequireStrictCert, TLSContexts_OcspEnable, TLSContexts OcspServerPrimary, TLSContexts OcspServerSecondary, TLSContexts OcspServerPort, TLSContexts OcspDefaultResponse, TLSContexts DHKeySize; TLSContexts 0 = "default", 0, 0, "RC4:AES128", "DEFAULT", 0, 0, , , 2560, 0, 1024; [\TLSContexts] [AudioCodersGroups] FORMAT AudioCodersGroups Index = AudioCodersGroups Name; AudioCodersGroups 0 = "AudioCodersGroups 0"; [\AudioCodersGroups] [AllowedAudioCodersGroups] FORMAT AllowedAudioCodersGroups Index = AllowedAudioCodersGroups Name; AllowedAudioCodersGroups 0 = "Genesys"; [\AllowedAudioCodersGroups] [IpProfile] FORMAT IpProfile Index = IpProfile ProfileName, IpProfile IpPreference, IpProfile CodersGroupName, IpProfile IsFaxUsed, IpProfile JitterBufMinDelay, IpProfile JitterBufOptFactor, IpProfile IPDiffServ, IpProfile SigIPDiffServ, IpProfile RTPRedundancyDepth, IpProfile CNGmode, IpProfile VxxTransportType, IpProfile NSEMode, IpProfile IsDTMFUsed, IpProfile PlayRBTone2IP, IpProfile EnableEarlyMedia, IpProfile ProgressIndicator2IP, IpProfile EnableEchoCanceller, IpProfile_CopyDest2RedirectNumber, IpProfile MediaSecurityBehaviour, IpProfile CallLimit, IpProfile DisconnectOnBrokenConnection, IpProfile FirstTxDtmfOption, IpProfile SecondTxDtmfOption, IpProfile RxDTMFOption, IpProfile EnableHold, IpProfile InputGain, IpProfile VoiceVolume, IpProfile AddIEInSetup, IpProfile SBCExtensionCodersGroupName, IpProfile MediaIPVersionPreference, IpProfile TranscodingMode, IpProfile SBCAllowedMediaTypes, IpProfile SBCAllowedAudioCodersGroupName, IpProfile SBCAllowedVideoCodersGroupName, IpProfile SBCAllowedCodersMode, IpProfile SBCMediaSecurityBehaviour, IpProfile SBCRFC2833Behavior, IpProfile SBCAlternativeDTMFMethod, IpProfile SBCSendMultipleDTMFMethods, IpProfile SBCAssertIdentity, IpProfile AMDSensitivityParameterSuit, IpProfile AMDSensitivityLevel, IpProfile AMDMaxGreetingTime, IpProfile AMDMaxPostSilenceGreetingTime, IpProfile 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 SBCEnhancedPlc, IpProfile LocalRingbackTone, IpProfile LocalHeldTone, IpProfile SBCGenerateNoOp, IpProfile SBCRemoveUnKnownCrypto; IpProfile 1 = "Genesys", 1, "AudioCodersGroups_0", 0, 10, 10, 46, 24, 0, 0, 2, 0, 0, 0, 0, -1, 1, 0, 0, -1, 1, 4, -1, 1, 1, 0, 0, "", "AudioCodersGroups_0", 0, 0, "", "Genesys", "", 0, 0, 0, 0, 0, 0, 8, 300, 400, 0, 0, 0, ⁻"", 0, 0, 1, 3, 0, 2, 2, 1, 0, 0, 1, 2, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, -1, -1, -1, -1, 1, 0, "", 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -1, -1, 0, 0; IpProfile 2 = "ITSP", 1, "AudioCodersGroups 0", 0, 10, 10, 46, 24, 0, 0, 2, 0, 0, 0, 0, -1, 1, 0, 0, -1, 1, 4, -1, 1, 1, 0, 0, "", "", 0, 0, "", "", "", 0, 0, 0, 0, 0, 0, 0, 8, 300, 400, 0, 0, 0, "", 0, 0, 1, 3, 0, 2, 2, 1, 3, 2, 1, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, -1, -1, 0, 0, 0, 0, 0, 0, 0, 0, -1, -1, -1, -1, -1, 0, "", 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -1, -1, 0, 0; IpProfile 3 = "Remote User", 1, "AudioCodersGroups_0", 0, 10, 10, 46, 24, 0, 0, 2, 0, 0, 0, 0, -1, 1, 0, 0, -1, 1, 4, -1, 1, 1, 0, 0, "", "", 0, 0, "", "", "", 0, 0, 0, 0, 0, 0, 0, 8, 300, 400, 0, 0, 0, "", 0, 0, 1, 3, 0, 2, 2, 1, 3, 2, 1, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 300, -1, -1, 0, 0, 0, 0, 0, 0, 0, 0, -1, -1, -1, -1, 1, 0, "", 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, -1, -1, 0, 0; [\IpProfile]

[CpMediaRealm]

FORMAT CpMediaRealm_Index = CpMediaRealm_MediaRealmName, CpMediaRealm_IPv4IF, CpMediaRealm_IPv6IF, CpMediaRealm_RemoteIPv4IF, CpMediaRealm_RemoteIPv6IF, CpMediaRealm_PortRangeStart,

```
CpMediaRealm MediaSessionLeg, CpMediaRealm PortRangeEnd,
CpMediaRealm IsDefault, CpMediaRealm QoeProfile, CpMediaRealm BWProfile,
CpMediaRealm TopologyLocation;
CpMediaRealm 0 = "DefaultRealm", "NETMGT", "", "", "", 62000, 100, 62999,
1, "", "", 0;
CpMediaRealm 1 = "MR-SBC2Genesys", "NETMGT", "", "", 8000, 100, 8999,
0, "", "", 0;
CpMediaRealm 2 = "MR-SBC2ITSP", "PUBSIP", "", "", 6000, 100, 6999, 0,
"", "", 0;
CpMediaRealm 3 = "MR RemoteAgents", "PUBSIP", "", "", 10000, 100,
10999, 0, "", "", 0;
[ \CpMediaRealm ]
[ SBCRoutingPolicy ]
FORMAT SBCRoutingPolicy Index = SBCRoutingPolicy Name,
SBCRoutingPolicy LCREnable, SBCRoutingPolicy LCRAverageCallLength,
SBCRoutingPolicy LCRDefaultCost, SBCRoutingPolicy LdapServerGroupName;
SBCRoutingPolicy 0 = "Default SBCRoutingPolicy", 0, 1, 0, "";
[ \SBCRoutingPolicy ]
[ SRD ]
FORMAT SRD Index = SRD Name, SRD BlockUnRegUsers, SRD MaxNumOfRegUsers,
SRD EnableUnAuthenticatedRegistrations, SRD SharingPolicy,
SRD UsedByRoutingServer, SRD SBCOperationMode, SRD SBCRoutingPolicyName,
SRD SBCDialPlanName, SRD AdmissionProfile;
SRD 0 = "DefaultSRD", 0, -1, 1, 0, 0, 0, "Default SBCRoutingPolicy", "",
"";
[\SRD]
[ MessagePolicy ]
FORMAT MessagePolicy Index = MessagePolicy Name,
MessagePolicy MaxMessageLength, MessagePolicy MaxHeaderLength,
MessagePolicy MaxBodyLength, MessagePolicy MaxNumHeaders,
MessagePolicy MaxNumBodies, MessagePolicy SendRejection,
MessagePolicy MethodList, MessagePolicy MethodListType,
MessagePolicy BodyList, MessagePolicy BodyListType,
MessagePolicy UseMaliciousSignatureDB;
MessagePolicy 0 = "Malicious Signature DB Protection", -1, -1, -1, -1, -1,
1, "", 0, "", 0, 1;
[ \MessagePolicy ]
[ SIPInterface ]
FORMAT SIPInterface Index = SIPInterface InterfaceName,
SIPInterface NetworkInterface, SIPInterface ApplicationType,
SIPInterface UDPPort, SIPInterface TCPPort, SIPInterface TLSPort,
SIPInterface AdditionalUDPPorts, SIPInterface AdditionalUDPPortsMode,
SIPInterface SRDName, SIPInterface MessagePolicyName,
SIPInterface TLSContext, SIPInterface TLSMutualAuthentication,
```

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```
SIPInterface_TCPKeepaliveEnable,
SIPInterface ClassificationFailureResponseType,
SIPInterface PreClassificationManSet, SIPInterface EncapsulatingProtocol,
SIPInterface MediaRealm, SIPInterface SBCDirectMedia,
SIPInterface BlockUnRegUsers, SIPInterface MaxNumOfRegUsers,
SIPInterface EnableUnAuthenticatedRegistrations,
SIPInterface_UsedByRoutingServer, SIPInterface TopologyLocation,
SIPInterface PreParsingManSetName, SIPInterface AdmissionProfile,
SIPInterface_CallSetupRulesSetId;
SIPInterface 0 = "SIPInterface 0", "NETMGT", 0, 0, 0, 0, "", 0,
"DefaultSRD", "", "default", -1, 0, 500, -1, 0, "", 0, -1, -1, -1, 0, 0,
"", "", -1;
SIPInterface 1 = "Genesys", "NETMGT", 2, 5060, 5060, 0, "", 0,
"DefaultSRD", "", "default", -1, 0, 500, -1, 0, "MR-SBC2Genesys", 0, -1, -
1, -1, 0, 0, "", "", -1;
SIPInterface 2 = "ITSP", "PUBSIP", 2, 5070, 0, 0, "", 0, "DefaultSRD", "",
"default", -1, 0, 500, -1, 0, "MR-SBC2ITSP", 0, -1, -1, -1, 0, 0, "", "", -
1;
SIPInterface 3 = "RemoteAgents", "PUBSIP", 2, 5080, 0, 0, "", 0,
"DefaultSRD", "", "default", -1, 0, 500, -1, 0, "MR-SBC2ITSP", 0, -1, -1, -
1, 0, 0, "", "", -1;
[ \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 = "ProxySet 0", 0, 60, 0, 0, "DefaultSRD", 0, "", -1, -1, "",
"SIPInterface_0", "", "", "", 1, 1, 10, -1;
ProxySet 1 = "Genesys", 1, 60, 0, 0, "DefaultSRD", 0, "default", -1, -1,
"", "", "Genesys", "", "", 1, 1, 10, -1;
ProxySet 2 = "ITSP", 1, 60, 0, 0, "DefaultSRD", 0, "", -1, -1, "", "",
"ITSP", "", "", 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 SBCServerAuthType,
IPGroup_OAuthHTTPService, IPGroup EnableSBCClientForking,
IPGroup_SourceUriInput, IPGroup_DestUriInput, IPGroup_ContactName,
IPGroup Username, IPGroup Password, IPGroup UUIFormat, IPGroup QOEProfile,
IPGroup BWProfile, IPGroup AlwaysUseSourceAddr, IPGroup MsgManUserDef1,
```

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IPGroup DTLSContext, IPGroup CreatedByRoutingServer,
IPGroup UsedByRoutingServer, IPGroup SBCOperationMode,
IPGroup SBCRouteUsingRequestURIPort, IPGroup SBCKeepOriginalCallID,
IPGroup TopologyLocation, IPGroup SBCDialPlanName,
IPGroup CallSetupRulesSetId, IPGroup Tags, IPGroup SBCUserStickiness,
IPGroup UserUDPPortAssignment, IPGroup AdmissionProfile,
IPGroup ProxyKeepAliveUsingIPG;
IPGroup 0 = 0, "Default_IPG", "ProxySet_0", "", "", -1, 0, "DefaultSRD",
"", 0, "", -1, -1, -1, 0, 0, "", -1, "", 0, -1, -1, "", "", "$1$gQ==", 0,
"", "", 0, "", "", 0, 0, "default", 0, 0, -1, 0, 0, 0, "", -1, "", 0, 0,
"", 0;
IPGroup 1 = 0, "Genesys", "Genesys", "192.168.20.83", "", -1, 0,
"DefaultSRD", "MR-SBC2Genesys", 1, "Genesys", -1, 4, 10, 0, 1, "", -1, "", 0, -1, -1, "", "$1$gQ==", 0, "", "", 0, "", "", 0, 0, "default", 0, 0,
0, 0, 0, 0, "", -1, "", 0, 0, "", 0;
IPGroup 2 = 0, "ITSP", "ITSP", "", -1, 0, "DefaultSRD", "MR-SBC2ITSP",
1, "ITSP", -1, -1, 5, 0, 0, "", -1, "", 0, -1, -1, "", ", "$1$gQ==", 0,
"", "", 0, "", "", 0, 0, "default", 0, 0, 0, 0, 0, 0, 0, "", -1, "", 0, 0, "",
0;
IPGroup 3 = 1, "RemoteAgents", "", "", "", -1, 0, "DefaultSRD", "MR-
SBC2ITSP", 0, "Remote User", -1, -1, -1, 0, 0, "", -1, "", 0, -1, -1, "",
"", "$1$gQ==", 0, "", "", 0, "", "", 0, 0, "default", 0, 0, 0, 0, 0, 0, "",
-1, "", 0, 0, "", 0;
[ \IPGroup ]
[ Dns2Ip ]
FORMAT Dns21p Index = Dns21p DomainName, Dns21p First1pAddress,
Dns2Ip SecondIpAddress, Dns2Ip ThirdIpAddress;
Dns2Ip 0 = "sipserver.genesys-domain.com", 192.168.10.98, 0.0.0.0, 0.0.0.0;
Dns2Ip 1 = "sipx.acantho.it", 83.216.191.70, 0.0.0.0, 0.0.0.0;
[\Dns2Ip]
[ ProxyIp ]
FORMAT ProxyIp Index = ProxyIp ProxySetId, ProxyIp ProxyIpIndex,
ProxyIp IpAddress, ProxyIp TransportType, ProxyIp Priority, ProxyIp Weight;
ProxyIp 0 = "1", 0, "sipserver.genesys-domain.com:5060", 0, 0, 0;
ProxyIp 2 = "2", 0, "sipx.acantho.it:5070", 0, 0;
[ \ProxyIp ]
[ Account ]
FORMAT Account Index = Account AccountName, Account ServedTrunkGroup,
Account ServedIPGroupName, Account ServingIPGroupName, Account Username,
Account Password, Account HostName, Account ContactUser, Account Register,
Account RegistrarStickiness, Account RegistrarSearchMode,
Account RegEventPackageSubscription, Account ApplicationType,
Account RegByServedIPG, Account UDPPortAssignment,
Account ReRegisterOnInviteFailure;
Account 0 = "", -1, "ITSP", "Genesys", "genesys", "$1$S3p+fno=", "", 0,
0, 0, 0, 2, 0, 0, 0;
[ \Account ]
```

[IP2IPRouting]

FORMAT IP2IPRouting Index = IP2IPRouting RouteName, IP2IPRouting_RoutingPolicyName, IP2IPRouting_SrcIPGroupName, IP2IPRouting SrcUsernamePrefix, IP2IPRouting SrcHost, IP2IPRouting DestUsernamePrefix, IP2IPRouting DestHost, IP2IPRouting_RequestType, IP2IPRouting_MessageConditionName, IP2IPRouting ReRouteIPGroupName, IP2IPRouting Trigger, IP2IPRouting CallSetupRulesSetId, IP2IPRouting DestType, IP2IPRouting DestIPGroupName, IP2IPRouting DestSIPInterfaceName, IP2IPRouting DestAddress, IP2IPRouting DestPort, IP2IPRouting DestTransportType, IP2IPRouting AltRouteOptions, IP2IPRouting GroupPolicy, IP2IPRouting CostGroup, IP2IPRouting DestTags, IP2IPRouting SrcTags, IP2IPRouting IPGroupSetName, IP2IPRouting RoutingTagName, IP2IPRouting InternalAction; IP2IPRouting 0 = "Options", "Default_SBCRoutingPolicy", "Any", "*", "*", "*", "*", 6, "", "Any", 0, -1, 1, "", "", "internal", 0, -1, 0, 0, "", "", "", "", "default", ""; IP2IPRouting 1 = "3xx/Refer to Genesys", "Default_SBCRoutingPolicy", "Any", "*", "*", "*", "*", 0, "", "Genesys", 3, -1, 2, "", "", "", 0, -1, 0, 0, "", "", "", ", "default", ""; IP2IPRouting 2 = "3xx/Refer Trigger", "Default SBCRoutingPolicy", "Any", "*", "*", "*", "*", 0, "", "Genesys", 3, -1, 0, "ITSP", "", "", 0, -1, 0, 0, "", "", "", ", "default", ""; IP2IPRouting 3 = "3xx Refer Remote Agents", "Default SBCRoutingPolicy", "Genesys", "*", "*", "*", 0, "", "RemoteAgents", 3, -1, 2, "", "", ", 0, -1, 0, 0, "", "", "", "default", ""; IP2IPRouting 4 = "ITSP->Genesys", "Default SBCRoutingPolicy", "ITSP", "*", "*", "*", "*", 0, "", "Any", 0, -1, 0, "Genesys", "", "", 0, -1, 0, 0, "", "", "", "", "default", ""; IP2IPRouting 5 = "Genesys->AHA", "Default SBCRoutingPolicy", "Genesys", "*", "*", "*", "*", 0, "", "Any", 0, -1, 10, "", "", "", 0, -1, 0, 0, "", "", "", "", "default", ""; IP2IPRouting 6 = "Genesys->ITSP", "Default_SBCRoutingPolicy", "Genesys", "*", "*", "*", "*", 0, "", "Any", 0, -1, 0, "ITSP", "", "", 0, -1, 1, 0, "", "", "", ", "default", ""; IP2IPRouting 7 = "AHA->Genesys", "Default SBCRoutingPolicy", "RemoteAgents", "*", "*", "*", 0, "", "Any", 0, -1, 0, "Genesys", "", ", 0, -1, 0, 0, "", "", ", "default", "";

[\IP2IPRouting]

```
[ Classification ]
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FORMAT Classification_Index = Classification_ClassificationName, Classification_MessageConditionName, Classification_SRDName, Classification_SrcSIPInterfaceName, Classification_SrcAddress, Classification_SrcPort, Classification_SrcTransportType, Classification_SrcUsernamePrefix, Classification_SrcHost, Classification_DestUsernamePrefix, Classification_DestHost, Classification_ActionType, Classification_SrcIPGroupName, Classification_DestRoutingPolicy, Classification_IpProfileName, Classification_IPGroupSelection, Classification_IpGroupTagName; Classification 0 = "AHA", "", "DefaultSRD", "RemoteAgents", "", 0, -1, "*", "*", "*", "*", 1, "RemoteAgents", "", 0, "default";

[\Classification]

```
[ IPInboundManipulation ]
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```
FORMAT IPInboundManipulation Index =
IPInboundManipulation ManipulationName,
IPInboundManipulation RoutingPolicyName,
IPInboundManipulation IsAdditionalManipulation,
IPInboundManipulation ManipulationPurpose,
IPInboundManipulation SrcIPGroupName,
IPInboundManipulation SrcUsernamePrefix, IPInboundManipulation SrcHost,
IPInboundManipulation DestUsernamePrefix, IPInboundManipulation DestHost,
IPInboundManipulation RequestType, IPInboundManipulation ManipulatedURI,
IPInboundManipulation RemoveFromLeft,
IPInboundManipulation RemoveFromRight,
IPInboundManipulation LeaveFromRight, IPInboundManipulation Prefix2Add,
IPInboundManipulation Suffix2Add;
IPInboundManipulation 1 = "remove access code", "Default_SBCRoutingPolicy",
0, 0, "Genesys", "*", "*", "7939059969999x#", "*", 0, 1, 4, 0, 255, "", "";
[ \IPInboundManipulation ]
[ IPOutboundManipulation ]
FORMAT IPOutboundManipulation Index =
IPOutboundManipulation ManipulationName,
IPOutboundManipulation RoutingPolicyName,
IPOutboundManipulation IsAdditionalManipulation,
IPOutboundManipulation_SrcIPGroupName,
IPOutboundManipulation_DestIPGroupName,
IPOutboundManipulation_SrcUsernamePrefix, IPOutboundManipulation SrcHost,
IPOutboundManipulation DestUsernamePrefix, IPOutboundManipulation DestHost,
IPOutboundManipulation CallingNamePrefix,
IPOutboundManipulation MessageConditionName,
IPOutboundManipulation RequestType,
IPOutboundManipulation ReRouteIPGroupName, IPOutboundManipulation Trigger,
IPOutboundManipulation ManipulatedURI,
IPOutboundManipulation RemoveFromLeft,
IPOutboundManipulation RemoveFromRight,
IPOutboundManipulation LeaveFromRight, IPOutboundManipulation Prefix2Add,
IPOutboundManipulation Suffix2Add,
IPOutboundManipulation PrivacyRestrictionMode,
IPOutboundManipulation DestTags, IPOutboundManipulation SrcTags;
IPOutboundManipulation 0 = "strip CC to Genesys SIP Server",
"Default SBCRoutingPolicy", 0, "ITSP", "Genesys", "*", "*", "+39", "*",
"*", "", 0, "Any", 0, 1, 3, 0, 255, "", "", 0, "", "";
IPOutboundManipulation 1 = "", "Default SBCRoutingPolicy", 0, "ITSP",
"ITSP", "*", "*", "39*", "*", "*", 0, "Any", 0, 1, 2, 0, 255, "", "",
0, "", "";
[ \IPOutboundManipulation ]
[ MessageManipulations ]
FORMAT MessageManipulations Index = MessageManipulations ManipulationName,
MessageManipulations ManSetID, MessageManipulations MessageType,
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MessageManipulations Condition, MessageManipulations ActionSubject,

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MessageManipulations ActionType, MessageManipulations ActionValue,
MessageManipulations RowRole;
MessageManipulations 1 = "modify outbound Request-URI", 5, "Any", "",
"header.request-uri.url.host", 2, "'sipx.acantho.it'", 0;
MessageManipulations 2 = "Normalize outbound Request-URI", 5, "Any", "",
"header.request-uri", 7, "", 0;
MessageManipulations 3 = "modify from host (so as to keep the tag)", 5,
"Any", "", "header.from.url.host", 2, "'sipx.acantho.it'", 0;
MessageManipulations 4 = "modify outbound To host", 5, "Any", "",
"header.to.url.host", 2, "'sipx.acantho.it'", 0;
MessageManipulations 5 = "modify PAI for REFERs", 5, "Any", "", "header.p-
asserted-identity", 2, "'<sip:0599699990@sipx.acantho.it>'", 0;
MessageManipulations 6 = "set contact to referred-by if exists", 5, "Any",
"header.Referred-By exists", "header.contact.url.host", 2,
"header.referred-by.url.host", 0;
MessageManipulations 7 = "contact host; must be 173.x", 5, "Any", "",
"header.contact.url.host", 2, "'173.227.254.67'", 0;
MessageManipulations 8 = "add DH if does not exist", 5, "Any",
"header.diversion !exists", "header.diversion", 0,
"'<tel:0599699990@sipx.acantho.it>;reason=unknown;counter=1;screen=no;priva
cy=off'", 0;
MessageManipulations 9 = "correct hostname on diversion header", 5, "Any",
"", "header.diversion.url.host", 2, "'sipx.acantho.it'", 0;
MessageManipulations 10 = "refer access code", 4, "Refer.Request",
"header.refer-to.url.user == '79390599699993'", "header.refer-to.url.user",
2, "'390599699993'", 0;
MessageManipulations 11 = "request-uri", 10, "Any", "", "header.request-
uri.url.host", 2, "param.message.address.dst.ip", 0;
MessageManipulations 12 = "from host", 10, "Any", "",
"header.from.url.host", 2, "'192.168.20.83'", 0;
MessageManipulations 13 = "to host", 10, "Any", "", "header.to.url.host",
2, "param.message.address.dst.ip", 0;
[ \MessageManipulations ]
[ GwRoutingPolicy ]
FORMAT GwRoutingPolicy Index = GwRoutingPolicy Name,
GwRoutingPolicy LCREnable, GwRoutingPolicy LCRAverageCallLength,
GwRoutingPolicy LCRDefaultCost, GwRoutingPolicy LdapServerGroupName;
GwRoutingPolicy 0 = "GwRoutingPolicy", 0, 1, 0, "";
[ \GwRoutingPolicy ]
[ LoggingFilters ]
FORMAT LoggingFilters Index = LoggingFilters FilterType,
LoggingFilters Value, LoggingFilters LogDestination,
LoggingFilters_CaptureType, LoggingFilters Mode;
LoggingFilters 1 = 1, "", 1, 2, 1;
[ \LoggingFilters ]
[ ResourcePriorityNetworkDomains ]
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FORMAT ResourcePriorityNetworkDomains Index =
ResourcePriorityNetworkDomains Name,
ResourcePriorityNetworkDomains Ip2TelInterworking;
ResourcePriorityNetworkDomains 1 = "dsn", 1;
ResourcePriorityNetworkDomains 2 = "dod", 1;
ResourcePriorityNetworkDomains 3 = "drsn", 1;
ResourcePriorityNetworkDomains 5 = "uc", 1;
ResourcePriorityNetworkDomains 7 = "cuc", 1;
[ \ResourcePriorityNetworkDomains ]
[ SBCUserInfoTable ]
FORMAT SBCUserInfoTable Index = SBCUserInfoTable LocalUser,
SBCUserInfoTable Username, SBCUserInfoTable Password,
SBCUserInfoTable IPGroupName;
SBCUserInfoTable 0 = "0274557720", "genesys", "$1$S3p+fno=", "Genesys";
[ \SBCUserInfoTable ]
[ MaliciousSignatureDB ]
FORMAT MaliciousSignatureDB Index = MaliciousSignatureDB Name,
MaliciousSignatureDB Pattern;
MaliciousSignatureDB 0 = "SIPVicious", "Header.User-Agent.content prefix
'friendly-scanner'";
MaliciousSignatureDB 1 = "SIPScan", "Header.User-Agent.content prefix 'sip-
scan'";
MaliciousSignatureDB 2 = "Smap", "Header.User-Agent.content prefix 'smap'";
MaliciousSignatureDB 3 = "Sipsak", "Header.User-Agent.content prefix
'sipsak'";
MaliciousSignatureDB 4 = "Sipcli", "Header.User-Agent.content prefix
'sipcli'";
MaliciousSignatureDB 5 = "Sivus", "Header.User-Agent.content prefix
'SIVuS'";
MaliciousSignatureDB 6 = "Gulp", "Header.User-Agent.content prefix 'Gulp'";
MaliciousSignatureDB 7 = "Sipv", "Header.User-Agent.content prefix 'sipv'";
MaliciousSignatureDB 8 = "Sundayddr Worm", "Header.User-Agent.content
prefix 'sundayddr'";
MaliciousSignatureDB 9 = "VaxIPUserAgent", "Header.User-Agent.content
prefix 'VaxIPUserAgent'";
MaliciousSignatureDB 10 = "VaxSIPUserAgent", "Header.User-Agent.content
prefix 'VaxSIPUserAgent'";
MaliciousSignatureDB 11 = "SipArmyKnife", "Header.User-Agent.content prefix
'siparmyknife'";
[ \MaliciousSignatureDB ]
[ AllowedAudioCoders ]
FORMAT AllowedAudioCoders Index =
AllowedAudioCoders AllowedAudioCodersGroupName,
AllowedAudioCoders AllowedAudioCodersIndex, AllowedAudioCoders CoderID,
AllowedAudioCoders UserDefineCoder;
AllowedAudioCoders 0 = "Genesys", 2, 1, "";
AllowedAudioCoders 1 = "Genesys", 1, 3, "";
```



[\AllowedAudioCoders]

[AudioCoders]

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

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[ \AudioCoders ]
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