

# Ribbon SBC Core R7.2 Interop with Kandy Business Solution in IBM Cloud : Interoperability Guide



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# Interoperable Vendors

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## Document Overview

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This document outlines the configuration best practices for the Ribbon SBC Core (5k/7k/SWe SBC) interoperating with KBS on one side and different NATted/ Non-NATted/ PSTN/ WebRTC clients on the other side.

The interoperability compliance testing focuses on verifying various inbound and outbound call flows between Ribbon Core SBC and KBS over UDP. The objective is to resolve the interoperability issues between SIRIS SBC 5400 deployed at two data centers and SBC SWe as a KBS instance in the IBM cloud.

The features and functionality are identical across different Ribbon core SBCs which typically covers different types of tests involving signalling flow for the following areas:

- SIP to SIP (NATted user to WebRTC Mobile client and vice-versa).
- SIP to SIP (Non-NATted user to WebRTC Mobile client and vice-versa).
- SIP to SIP (Non-NATted/ NATted user to PSTN and vice versa).
- SIP to SIP (WebRTC client to PSTN and vice versa).

This guide contains the following configuration sections:

### Section A: SIRIS SBC Configuration

- Captures the SBC configuration related to the SIRIS site.

### Section B: NVS SBC Configuration

- Captures the configuration related to SBC Swe in KBS within the IBM cloud.

### Section C: Phone Configuration

- Captures the phone configuration related to Polycom and Yealink. It involves basic phone configuration as well as the configuration of supplementary such as Call Park and Shared Line Appearance (SLA).

## Non-Goals

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It is not the goal of this guide to provide detailed configurations that will meet the requirements of every customer. Use this guide as a starting point and, to build the SBC configuration, consult with network design and deployment engineers.

## Audience

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This is a technical document intended for telecommunications engineers with the purpose of configuring both the Ribbon SBCs and the third-party product.

Steps will require navigating the third-party product as well as the Ribbon product using graphical user interface (GUI) or command line interface (CLI).  
Understanding of the basic concepts of TCP/UDP/TLS, IP/Routing, and SIP/RTP/SRTP is needed to complete the configuration and any necessary troubleshooting.



#### Note

This configuration guide is offered as a convenience to Ribbon customers. The specifications and information regarding the product in this guide are subject to change without notice. All statements, information, and recommendations in this guide are believed to be accurate but are presented without warranty of any kind, express or implied, and are provided "AS IS". Users must take full responsibility for the application of the specifications and information in this guide.

## Pre-Requisites

- Verify that clients have the necessary licenses for making enterprise voice calls.
- Place different clients behind the SBC, as follows:

1. NAT endpoints: Polycom/ Yealink phones are behind NAT with DHCP enabled.
2. Non-NAT endpoints: Configure 2 phones with static IPs i.e. 172.16.x.x
3. Two SIP endpoints configured with public IPs (115.110.x.x) to simulate a PSTN.
4. Set up SmartOffice clients on a mobile device and a PC as follows:

Bootstrap the user to log into Smart Office Client: ibmtest@omni.part/ Kandy-1234@(as mentioned below)

Please download Smart Office Client by the following link:

- Smart Office Client for Windows: <https://omni-na.kandy.io/sodesktop/upgrade/SmartOfficeInstall.exe>
- Smart office Client for MAC: <https://omni-na.kandy.io/sodesktop/upgrade/SmartOffice.pkg>
- You can also install Smart office application for Android and ios by searching "Smart Office for Mobile" on App store

The Client will require two logins:

- 1<sup>st</sup> login attempt with the SO client will accomplish bootstrap, bootstrap user: ibmtest@omni.part/Kandy-1234@
- 2<sup>nd</sup> login attempt with the SO client, please find the SO user on confluence page, i.e : souser1@ibmtest.part/ Kandy-1234@

For more user related information, refer to: [IBM setup SV](#)

## Product and Device Details

The following equipment and software were used for the sample configuration provided:

**Table 1:** Requirements

Product	Equipment	Software Version
Ribbon Networks	Ribbon SBC 5400	V07.02.00-R002
	Type	isbc
	ConnexIP OS	V06.02.00-R002
	RibbonDB	V07.02.00-R002
	EMA	V07.02.00-R002
	SBX	V07.02.00-R002

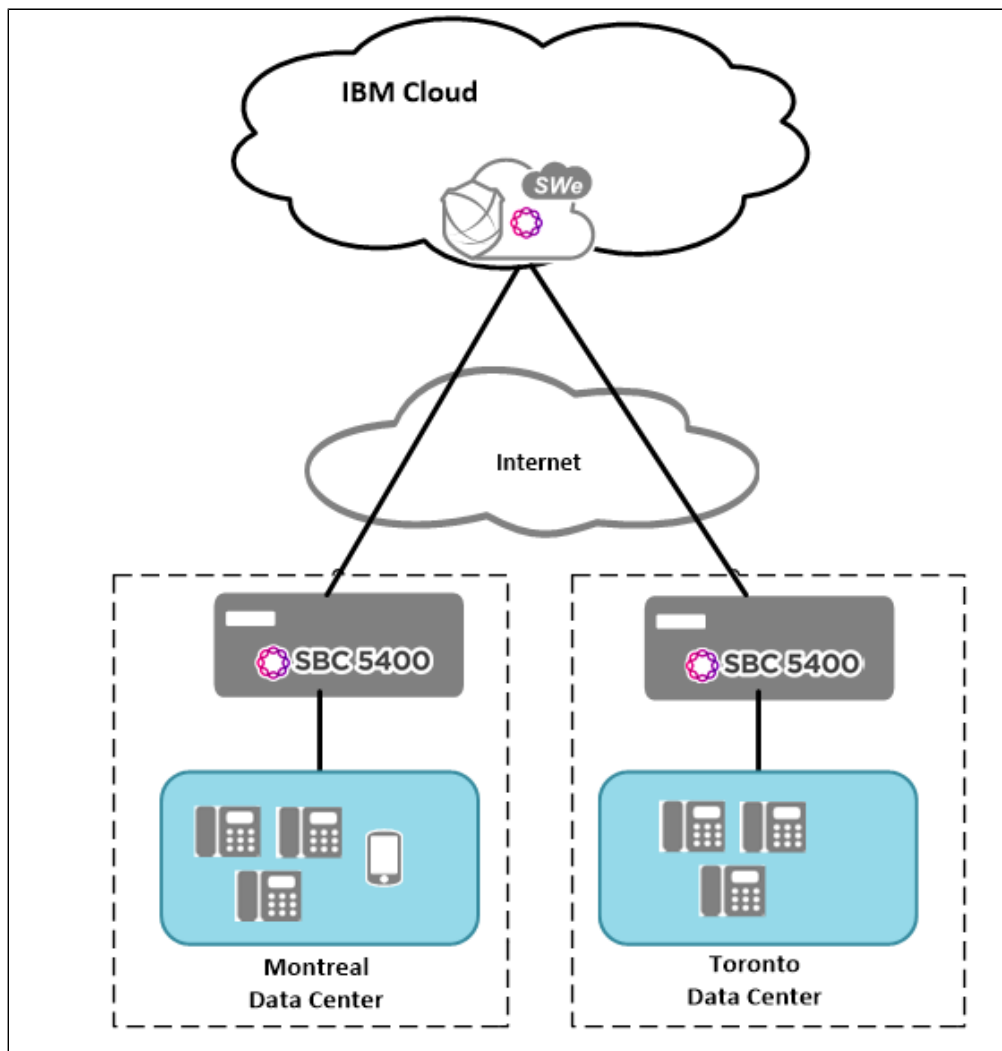
Third-party Equipment	1. Polycom Phones	1. VVX 1500
	2. Yealink Phones	VVX 300
	3. SO Clients	VVX 500
		Soundpoint 550
		Soundpoint 450
		Soundpoint IP450
		2. T23G
		T22g
		3. SO Mobile Client
		SO PC Client

## Network Topology Diagram

This section shows the connectivity between the third-party product and the Ribbon SBC Core.

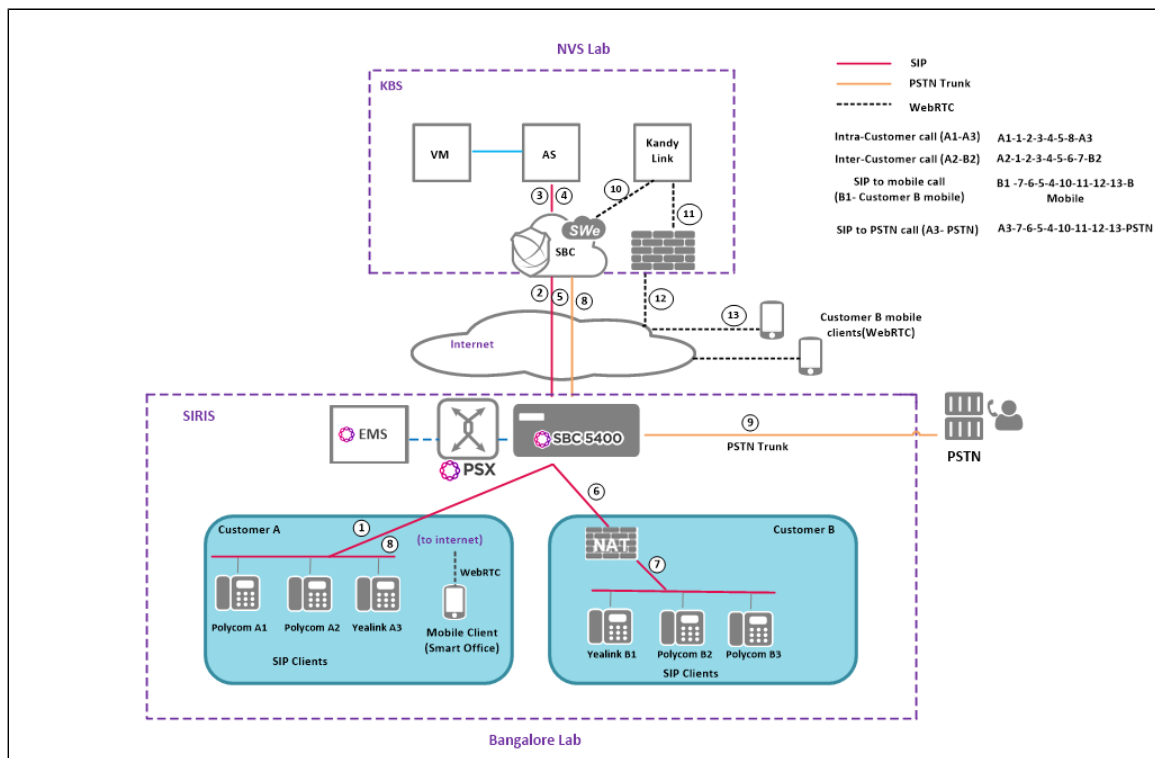
## Deployment Topology Diagram

Figure 1: Deployment Topology Diagram



## Interoperability Test Topology Diagram

**Figure 2:** Interoperability Test Topology Diagram



## Section A: SIRIS SBC Configuration

This section provides a snapshot of the Ribbon SBC 5400 configuration used during compliance testing. The screenshots and partial configuration shown below are for reference only.

### 1. Global Configuration

#### 1.1 Codec Entry

Create a Codec Entry with the supported codec as follows:

```
set profiles media codecEntry G711-DEFAULT codec g711
set profiles media codecEntry G711-DEFAULT packetSize 10
set profiles media codecEntry G711-DEFAULT fax failureHandling continue
set profiles media codecEntry G711-DEFAULT fax toneTreatment none
set profiles media codecEntry G711-DEFAULT fax honorToneDetection disable
set profiles media codecEntry G711-DEFAULT modem failureHandling continue
set profiles media codecEntry G711-DEFAULT modem toneTreatment none
set profiles media codecEntry G711-DEFAULT modem honorToneDetection disable
set profiles media codecEntry G711-DEFAULT law deriveFromOtherLeg
set profiles media codecEntry G711-DEFAULT dtmf relay none
set profiles media codecEntry G711-DEFAULT dtmf removedDigits enable
set profiles media codecEntry G711A_20MS_2833 codec g711
set profiles media codecEntry G711A_20MS_2833 packetSize 20
set profiles media codecEntry G711A_20MS_2833 fax failureHandling continue
set profiles media codecEntry G711A_20MS_2833 fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry G711A_20MS_2833 fax honorToneDetection disable
set profiles media codecEntry G711A_20MS_2833 modem failureHandling continue
set profiles media codecEntry G711A_20MS_2833 modem toneTreatment applyFaxTreatment
set profiles media codecEntry G711A_20MS_2833 modem honorToneDetection disable
set profiles media codecEntry G711A_20MS_2833 law ALaw
set profiles media codecEntry G711A_20MS_2833 dtmf relay rfc2833
set profiles media codecEntry G711A_20MS_2833 dtmf removeDigits enable
set profiles media codecEntry G711SS-DEFAULT codec g711ss
set profiles media codecEntry G711SS-DEFAULT packetSize 10
set profiles media codecEntry G711SS-DEFAULT fax failureHandling continue
set profiles media codecEntry G711SS-DEFAULT fax toneTreatment none
set profiles media codecEntry G711SS-DEFAULT modem failureHandling continue
```

```

set profiles media codecEntry G711SS-DEFAULT modem toneTreatment none
set profiles media codecEntry G711SS-DEFAULT law deriveFromOtherLeg
set profiles media codecEntry G711SS-DEFAULT sendSid enable
set profiles media codecEntry G711SS-DEFAULT dtmf relay none
set profiles media codecEntry G711SS-DEFAULT dtmf removeDigits enable
set profiles media codecEntry G711U_20MS_2833 codec g711
set profiles media codecEntry G711U_20MS_2833 packetSize 20
set profiles media codecEntry G711U_20MS_2833 fax failureHandling continue
set profiles media codecEntry G711U_20MS_2833 fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry G711U_20MS_2833 fax honorToneDetection disable
set profiles media codecEntry G711U_20MS_2833 modem failureHandling continue
set profiles media codecEntry G711U_20MS_2833 modem toneTreatment applyFaxTreatment
set profiles media codecEntry G711U_20MS_2833 modem honorToneDetection disable
set profiles media codecEntry G711U_20MS_2833 law ULaw
set profiles media codecEntry G711U_20MS_2833 dtmf relay rfc2833
set profiles media codecEntry G711U_20MS_2833 dtmf removeDigits enable
set profiles media codecEntry G711a_20ms_2833_T38 codec g711
set profiles media codecEntry G711a_20ms_2833_T38 packetSize 20
set profiles media codecEntry G711a_20ms_2833_T38 fax failureHandling continue
set profiles media codecEntry G711a_20ms_2833_T38 fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry G711a_20ms_2833_T38 fax honorToneDetection disable
set profiles media codecEntry G711a_20ms_2833_T38 modem failureHandling continue
set profiles media codecEntry G711a_20ms_2833_T38 modem toneTreatment fallbackToG711
set profiles media codecEntry G711a_20ms_2833_T38 modem honorToneDetection disable
set profiles media codecEntry G711a_20ms_2833_T38 law ALaw
set profiles media codecEntry G711a_20ms_2833_T38 dtmf relay rfc2833
set profiles media codecEntry G711a_20ms_2833_T38 dtmf removeDigits enable
set profiles media codecEntry G711u_20ms_2833_T38 codec g711
set profiles media codecEntry G711u_20ms_2833_T38 packetSize 20
set profiles media codecEntry G711u_20ms_2833_T38 fax failureHandling continue
set profiles media codecEntry G711u_20ms_2833_T38 fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry G711u_20ms_2833_T38 fax honorToneDetection disable
set profiles media codecEntry G711u_20ms_2833_T38 modem failureHandling continue
set profiles media codecEntry G711u_20ms_2833_T38 modem toneTreatment fallbackToG711
set profiles media codecEntry G711u_20ms_2833_T38 modem honorToneDetection disable
set profiles media codecEntry G711u_20ms_2833_T38 law ULaw
set profiles media codecEntry G711u_20ms_2833_T38 dtmf relay rfc2833
set profiles media codecEntry G711u_20ms_2833_T38 dtmf removeDigits enable
set profiles media codecEntry G722 codec g722
set profiles media codecEntry G722 codingRate 64
set profiles media codecEntry G722 packetSize 20
set profiles media codecEntry G722 preferredRtpPayloadType 9
set profiles media codecEntry G722 fax failureHandling continue
set profiles media codecEntry G722 fax toneTreatment none
set profiles media codecEntry G722 modem failureHandling continue
set profiles media codecEntry G722 modem toneTreatment none
set profiles media codecEntry G722 dtmf relay rfc2833
set profiles media codecEntry G722 dtmf removeDigits disable
set profiles media codecEntry G722_20ms_2833_T38 codec g722
set profiles media codecEntry G722_20ms_2833_T38 codingRate 64
set profiles media codecEntry G722_20ms_2833_T38 packetSize 20
set profiles media codecEntry G722_20ms_2833_T38 preferredRtpPayloadType 128
set profiles media codecEntry G722_20ms_2833_T38 fax failureHandling continue
set profiles media codecEntry G722_20ms_2833_T38 fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry G722_20ms_2833_T38 modem failureHandling continue
set profiles media codecEntry G722_20ms_2833_T38 modem toneTreatment fallbackToG711
set profiles media codecEntry G722_20ms_2833_T38 dtmf relay rfc2833
set profiles media codecEntry G722_20ms_2833_T38 dtmf removeDigits enable
set profiles media codecEntry G723-DEFAULT codec g7231
set profiles media codecEntry G723-DEFAULT codingRate 6.3
set profiles media codecEntry G723-DEFAULT packetSize 30
set profiles media codecEntry G723-DEFAULT preferredRtpPayloadType 128
set profiles media codecEntry G723-DEFAULT fax failureHandling continue
set profiles media codecEntry G723-DEFAULT fax toneTreatment none
set profiles media codecEntry G723-DEFAULT modem failureHandling continue
set profiles media codecEntry G723-DEFAULT modem toneTreatment none
set profiles media codecEntry G723-DEFAULT dtmf relay none
set profiles media codecEntry G723-DEFAULT dtmf removeDigits enable
set profiles media codecEntry G723A-DEFAULT codec g7231a
set profiles media codecEntry G723A-DEFAULT codingRate 6.3
set profiles media codecEntry G723A-DEFAULT packetSize 30
set profiles media codecEntry G723A-DEFAULT preferredRtpPayloadType 128

```



```

set profiles media codecEntry G723A-DEFAULT fax failureHandling continue
set profiles media codecEntry G723A-DEFAULT fax toneTreatment none
set profiles media codecEntry G723A-DEFAULT modem failureHandling continue
set profiles media codecEntry G723A-DEFAULT modem toneTreatment none
set profiles media codecEntry G723A-DEFAULT dtmf relay none
set profiles media codecEntry G723A-DEFAULT dtmf removeDigits enable
set profiles media codecEntry G726-DEFAULT codec g726
set profiles media codecEntry G726-DEFAULT codingRate 32
set profiles media codecEntry G726-DEFAULT packetSize 20
set profiles media codecEntry G726-DEFAULT preferredRtpPayloadType 128
set profiles media codecEntry G726-DEFAULT fax failureHandling continue
set profiles media codecEntry G726-DEFAULT fax toneTreatment none
set profiles media codecEntry G726-DEFAULT modem failureHandling continue
set profiles media codecEntry G726-DEFAULT modem toneTreatment none
set profiles media codecEntry G726-DEFAULT dtmf relay none
set profiles media codecEntry G726-DEFAULT dtmf removeDigits enable
set profiles media codecEntry G729A-DEFAULT codec g729a
set profiles media codecEntry G729A-DEFAULT packetSize 20
set profiles media codecEntry G729A-DEFAULT preferredRtpPayloadType 128
set profiles media codecEntry G729A-DEFAULT fax failureHandling continue
set profiles media codecEntry G729A-DEFAULT fax toneTreatment none
set profiles media codecEntry G729A-DEFAULT modem failureHandling continue
set profiles media codecEntry G729A-DEFAULT modem toneTreatment none
set profiles media codecEntry G729A-DEFAULT dtmf relay none
set profiles media codecEntry G729A-DEFAULT dtmf removeDigits enable
set profiles media codecEntry G729AB-DEFAULT codec g729ab
set profiles media codecEntry G729AB-DEFAULT packetSize 20
set profiles media codecEntry G729AB-DEFAULT preferredRtpPayloadType 128
set profiles media codecEntry G729AB-DEFAULT fax failureHandling continue
set profiles media codecEntry G729AB-DEFAULT fax toneTreatment none
set profiles media codecEntry G729AB-DEFAULT modem failureHandling continue
set profiles media codecEntry G729AB-DEFAULT modem toneTreatment none
set profiles media codecEntry G729AB-DEFAULT dtmf relay none
set profiles media codecEntry G729AB-DEFAULT dtmf removeDigits enable
set profiles media codecEntry G729ab_20ms_2833_T38 codec g729ab
set profiles media codecEntry G729ab_20ms_2833_T38 packetSize 20
set profiles media codecEntry G729ab_20ms_2833_T38 preferredRtpPayloadType 128
set profiles media codecEntry G729ab_20ms_2833_T38 fax failureHandling continue
set profiles media codecEntry G729ab_20ms_2833_T38 fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry G729ab_20ms_2833_T38 modem failureHandling continue
set profiles media codecEntry G729ab_20ms_2833_T38 modem toneTreatment fallbackToG711
set profiles media codecEntry G729ab_20ms_2833_T38 dtmf relay rfc2833
set profiles media codecEntry G729ab_20ms_2833_T38 dtmf removeDigits enable
set profiles media codecEntry OPUS_2833 codec opus
set profiles media codecEntry OPUS_2833 packetSize 20
set profiles media codecEntry OPUS_2833 preferredRtpPayloadType 96
set profiles media codecEntry OPUS_2833 fax failureHandling continue
set profiles media codecEntry OPUS_2833 fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry OPUS_2833 modem failureHandling continue
set profiles media codecEntry OPUS_2833 modem toneTreatment none
set profiles media codecEntry OPUS_2833 dtmf relay rfc2833
set profiles media codecEntry OPUS_2833 dtmf removeDigits enable
set profiles media codecEntry OPUS_2833 maxAverageBitRate 20000
set profiles media codecEntry OPUS_2833 useCbr 0
set profiles media codecEntry OPUS_2833 useFec 0
set profiles media codecEntry OPUS_2833 useDtx 0
commit

```

## 1.2 Path Check Profile

Create a Path Check Profile that will be attached to the KBS side.

```

set profiles services pathCheckProfile Options60 protocol sipOptions sendInterval 60 replyTimeoutCount 3
recoveryCount 3 failureResponseCodes [ all ]
commit

```

## 1.3 Routing Label

Create Routing Labels with different Routing Label Routes to bind the PSTN or KBS Trunk Group with the endpoint behind the SIRIS SBC.

```
set global callRouting routingLabel PSTN_PHONE overflowNumber ""
set global callRouting routingLabel PSTN_PHONE overflowNOA none
set global callRouting routingLabel PSTN_PHONE overflowNPI none
set global callRouting routingLabel PSTN_PHONE routePrioritizationType sequence
set global callRouting routingLabel PSTN_PHONE action routes
set global callRouting routingLabel PSTN_PHONE numRoutesPerCall 10
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 1 routeType trunkGroup
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 1 trunkGroup PSTN_PHONE
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 1 ipPeer PHONE
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 1 proportion 0
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 1 cost 1000000
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 1 inService inService
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 1 testing normal
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 2 routeType trunkGroup
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 2 trunkGroup PSTN_PHONE
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 2 ipPeer PHONE2
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 2 proportion 0
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 2 cost 1000000
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 2 inService inService
set global callRouting routingLabel PSTN_PHONE routingLabelRoute 2 testing normal
set global callRouting routingLabel TO_KBS_APP overflowNumber ""
set global callRouting routingLabel TO_KBS_APP overflowNOA none
set global callRouting routingLabel TO_KBS_APP overflowNPI none
set global callRouting routingLabel TO_KBS_APP routePrioritizationType sequence
set global callRouting routingLabel TO_KBS_APP action routes
set global callRouting routingLabel TO_KBS_APP numRoutesPerCall 10
set global callRouting routingLabel TO_KBS_APP routingLabelRoute 1 routeType trunkGroup
set global callRouting routingLabel TO_KBS_APP routingLabelRoute 1 trunkGroup KBS_APPLICATION_TG
set global callRouting routingLabel TO_KBS_APP routingLabelRoute 1 ipPeer NVS_APPL_PEER
set global callRouting routingLabel TO_KBS_APP routingLabelRoute 1 proportion 0
set global callRouting routingLabel TO_KBS_APP routingLabelRoute 1 cost 1000000
set global callRouting routingLabel TO_KBS_APP routingLabelRoute 1 inService inService
set global callRouting routingLabel TO_KBS_APP routingLabelRoute 1 testing normal
set global callRouting routingLabel TO_KBS_AS overflowNumber ""
set global callRouting routingLabel TO_KBS_AS overflowNOA none
set global callRouting routingLabel TO_KBS_AS overflowNPI none
set global callRouting routingLabel TO_KBS_AS routePrioritizationType sequence
set global callRouting routingLabel TO_KBS_AS action routes
set global callRouting routingLabel TO_KBS_AS numRoutesPerCall 10
set global callRouting routingLabel TO_KBS_AS routingLabelRoute 1 routeType trunkGroup
set global callRouting routingLabel TO_KBS_AS routingLabelRoute 1 trunkGroup KBS_AS_TG
set global callRouting routingLabel TO_KBS_AS routingLabelRoute 1 ipPeer NVS_UA_PEER
set global callRouting routingLabel TO_KBS_AS routingLabelRoute 1 proportion 0
set global callRouting routingLabel TO_KBS_AS routingLabelRoute 1 cost 1000000
set global callRouting routingLabel TO_KBS_AS routingLabelRoute 1 inService inService
set global callRouting routingLabel TO_KBS_AS routingLabelRoute 1 testing normal
set global callRouting routingLabel TO_KBS_PSTN overflowNumber ""
set global callRouting routingLabel TO_KBS_PSTN overflowNOA none
set global callRouting routingLabel TO_KBS_PSTN overflowNPI none
set global callRouting routingLabel TO_KBS_PSTN routePrioritizationType sequence
set global callRouting routingLabel TO_KBS_PSTN action routes
set global callRouting routingLabel TO_KBS_PSTN numRoutesPerCall 10
set global callRouting routingLabel TO_KBS_PSTN routingLabelRoute 1 routeType trunkGroup
set global callRouting routingLabel TO_KBS_PSTN routingLabelRoute 1 trunkGroup KBS_PSTN_TG
set global callRouting routingLabel TO_KBS_PSTN routingLabelRoute 1 ipPeer KBS_PSTN_PEER
set global callRouting routingLabel TO_KBS_PSTN routingLabelRoute 1 proportion 0
set global callRouting routingLabel TO_KBS_PSTN routingLabelRoute 1 cost 1000000
set global callRouting routingLabel TO_KBS_PSTN routingLabelRoute 1 inService inService
set global callRouting routingLabel TO_KBS_PSTN routingLabelRoute 1 testing normal
set global callRouting routingLabel TO_PSTN_PHONE2 overflowNumber ""
set global callRouting routingLabel TO_PSTN_PHONE2 overflowNOA none
set global callRouting routingLabel TO_PSTN_PHONE2 overflowNPI none
set global callRouting routingLabel TO_PSTN_PHONE2 routePrioritizationType sequence
set global callRouting routingLabel TO_PSTN_PHONE2 action routes
set global callRouting routingLabel TO_PSTN_PHONE2 numRoutesPerCall 10
set global callRouting routingLabel TO_PSTN_PHONE2 routingLabelRoute 1 routeType trunkGroup
```

```

set global callRouting routingLabel TO_PSTN_PHONE2 routingLabelRoute 1 trunkGroup PSTN_PHONE
set global callRouting routingLabel TO_PSTN_PHONE2 routingLabelRoute 1 ipPeer PHONE2
set global callRouting routingLabel TO_PSTN_PHONE2 routingLabelRoute 1 proportion 0
set global callRouting routingLabel TO_PSTN_PHONE2 routingLabelRoute 1 cost 1000000
set global callRouting routingLabel TO_PSTN_PHONE2 routingLabelRoute 1 inService inService
set global callRouting routingLabel TO_PSTN_PHONE2 routingLabelRoute 1 testing normal
commit

```

## 1.4 Route

A Route is mandatory to send calls to the correct destination. In this scenario, trunk-based routing is used.

The configuration of both standard and username routes is done to ensure that no matter which way the called party is addressed (a number or username), the SBC will route the message to the Core.

```

set global callRouting route trunkGroup ACCESS_TG IBMKL standard Sonus_NULL Sonus_NULL all all ALL none Sonus_NULL
routingLabel TO_KBS_APP
set global callRouting route trunkGroup ACCESS_TG IBMKL username Sonus_NULL Sonus_NULL all all ALL none Sonus_NULL
routingLabel TO_KBS_APP
set global callRouting route trunkGroup KBS_PSTN_TG IBMKL standard Sonus_NULL Sonus_NULL all all ALL none
Sonus_NULL routingLabel PSTN_PHONE
set global callRouting route trunkGroup PSTN_PHONE IBMKL standard Sonus_NULL Sonus_NULL all all ALL none
Sonus_NULL routingLabel TO_KBS_PSTN
commit

```

## 1.5 SIP Message Manipulation

Create a SIP Adaptor profile to:

- Manipulate different headers like Content-Encoding, X-SIRIS-DMI in the incoming/ outgoing SIP responses and attach to ACCESS TG and KB\_APPLICATION\_TG.
- Manipulate the identity of the PSTN user to "Anonymous" by adding PAID and Privacy headers. Enable this sipAdaptorProfile only when using simulated PSTN for CLIR.

```

set profiles signaling sipAdaptorProfile kbsInputAdaptor state enabled
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 applyMatchHeader all
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 criterion 1 type message
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 criterion 1 message
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 criterion 1 message messageTypes all
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 criterion 2 type header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 criterion 2 header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 criterion 2 header name Content-Encoding
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 criterion 2 header condition exist
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 criterion 2 header hdrInstance all
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 action 1 type header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 action 1 operation rename
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 action 1 from
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 action 1 from type header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 action 1 from value X-Content-Encoding
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 action 1 to
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 action 1 to type header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 1 action 1 to value Content-Encoding
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 applyMatchHeader all
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 1 type message
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 1 message
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 1 message messageTypes all
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 2 type header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 2 header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 2 header name X-SIRIS-DMI
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 2 header condition exist
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 2 header hdrInstance all
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 3 type messageBody
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 3 messageBody
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 3 messageBody condition exist
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 criterion 3 messageBody messageBodyType sdp

```

```

set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 type header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 operation store
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 headerInfo headerValue
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 from
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 from type header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 from value X-SIRIS-DMI
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 to
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 to type variable
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 to variableValue var1
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 1 to variableScopeValue local
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 2 type variable
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 2 operation regdel
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 2 to
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 2 to type variable
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 2 to variableValue var1
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 2 regexp
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 2 regexp string "^s+"
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 2 regexp matchInstance one
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 type variable
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 operation regprepend
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 from
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 from type value
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 from value "\r\na=X-dmi:"
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 to
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 to type variable
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 to variableValue var1
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 regexp
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 regexp string ^.
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 3 regexp matchInstance one
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 type messageBody
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 operation regappend
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 from
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 from type variable
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 from variableValue var1
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 to
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 to type messageBody
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 to messageBodyValue sdp
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 regexp
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 regexp string "\r\nnt=[^\r\n]*"
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 4 regexp matchInstance one
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 5 type header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 5 operation delete
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 5 to
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 5 to type header
set profiles signaling sipAdaptorProfile kbsInputAdaptor rule 2 action 5 to value X-SIRIS-DMI
set profiles signaling sipAdaptorProfile kbsOutputAdaptor state enabled
set profiles signaling sipAdaptorProfile kbsOutputAdaptor advancedSMM disabled
set profiles signaling sipAdaptorProfile kbsOutputAdaptor profileType messageManipulation
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 applyMatchHeader all
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 1 type message
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 1 message
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 1 message messageTypes all
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 2 type messageBody
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 2 messageBody
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 2 messageBody condition exist
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 2 messageBody messageBodyType sdp
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 3 type messageBody
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 3 messageBody
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 3 messageBody condition regex-match
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 3 messageBody messageBodyType sdp
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 3 messageBody regexp
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 3 messageBody regexp string X-dmi
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 criterion 3 messageBody regexp numMatch match
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 type messageBody
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 operation regstore
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 from
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 from type messageBody
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 from messageBodyValue sdp
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 to
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 to type variable
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 to variableValue var1
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 to variableScopeValue local

```

```

set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 regexp
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 regexp string "X\-dmi\[^\r\n]*"
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 1 regexp matchInstance one
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 2 type variable
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 2 operation regdel
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 2 to
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 2 to type variable
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 2 to variableValue var1
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 2 regexp
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 2 regexp string X-dmi:
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 2 regexp matchInstance one
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 type sdpContent
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 operation delete
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 sdpContentSubType line
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 from
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 from type value
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 from value a=X-dmi
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 to
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 to type sdpContent
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 to sdpContent
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 to sdpContent streamType session
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 3 to sdpContent streamInstanceId 1
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 4 type header
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 4 operation add
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 4 headerPosition last
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 4 from
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 4 from type variable
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 4 from variableValue var1
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 4 to
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 4 to type header
set profiles signaling sipAdaptorProfile kbsOutputAdaptor rule 1 action 4 to value X-SIRIS-DMI
set profiles signaling sipAdaptorProfile accessOutputAdapter state enabled
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 applyMatchHeader all
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 applyMatchHdrRange undefined
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 criterion 1 type message
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 criterion 1 message
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 criterion 1 message messageTypes all
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 criterion 2 type header
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 criterion 2 header
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 criterion 2 header name X-Content-Encoding
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 criterion 2 header condition exist
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 criterion 2 header hdrInstance all
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 action 1 type header
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 action 1 operation rename
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 action 1 from
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 action 1 from type header
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 action 1 from value Content-Encoding
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 action 1 to
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 action 1 to type header
set profiles signaling sipAdaptorProfile accessOutputAdapter rule 1 action 1 to value X-Content-Encoding
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 state disabled
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 advancedSMM disabled
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 applyMatchHeader one
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 1 type message
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 1 message
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 1 message messageTypes request
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 1 message methodTypes invite
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 2 type header
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 2 header
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 2 header name From
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 2 header condition regex-match
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 2 header hdrInstance one
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 2 header regexp
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 criterion 2 header regexp string .
*1613555555.*
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 1 type header
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 1 operation add
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 1 headerPosition last
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 1 from
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 1 from type value
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 1 from value "\"16135555555\" <sip:
16135555555@198.17.84.127:5060>"

```

```
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 1 to
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 1 to type header
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 1 to value P-Asserted-Identity
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 2 type header
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 2 operation add
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 2 headerPosition last
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 2 from
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 2 from type value
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 2 from value id
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 2 to
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 2 to type header
set profiles signaling sipAdaptorProfile anonymousInputAdaptor3 rule 1 action 2 to value Privacy
commit
```

## 2. KBS Leg Configuration

### 2.1 Packet Service Profile (PSP)

Create a Packet Service Profile (PSP) for the KBS side. The PSP is specified within the SIP Trunk Group Configuration.

```

set profiles media packetServiceProfile XCODEFREE_PSP dataCalls preferredRtpDataPayloadType 56
set profiles media packetServiceProfile XCODEFREE_PSP dataCalls initialPlayoutBufferDelay 50
set profiles media packetServiceProfile XCODEFREE_PSP dataCalls packetSize 20
set profiles media packetServiceProfile XCODEFREE_PSP silenceFactor 40
set profiles media packetServiceProfile XCODEFREE_PSP typeOfService 0
set profiles media packetServiceProfile XCODEFREE_PSP voiceInitialPlayoutBufferDelay 10
set profiles media packetServiceProfile XCODEFREE_PSP rtcpOptions rtcp enable
set profiles media packetServiceProfile XCODEFREE_PSP rtcpOptions terminationForPassthrough disable
set profiles media packetServiceProfile XCODEFREE_PSP rtcpOptions enableRTCPForHeldCalls disable
set profiles media packetServiceProfile XCODEFREE_PSP rtcpOptions rtcpMux disable
set profiles media packetServiceProfile XCODEFREE_PSP rtcpOptions packetLossThreshold 0
set profiles media packetServiceProfile XCODEFREE_PSP rtcpOptions rrBandwidth 250
set profiles media packetServiceProfile XCODEFREE_PSP rtcpOptions rsBandwidth 250
set profiles media packetServiceProfile XCODEFREE_PSP rtcpOptions packetLossAction none
set profiles media packetServiceProfile XCODEFREE_PSP rtcpOptions rtcpXr disable
set profiles media packetServiceProfile XCODEFREE_PSP peerAbsenceAction none
set profiles media packetServiceProfile XCODEFREE_PSP silenceInsertionDescriptor g711SidRtpPayloadType 13
set profiles media packetServiceProfile XCODEFREE_PSP silenceInsertionDescriptor heartbeat enable
set profiles media packetServiceProfile XCODEFREE_PSP aallPayloadSize 47
set profiles media packetServiceProfile XCODEFREE_PSP codec codecEntry1 G711U_20MS_2833
set profiles media packetServiceProfile XCODEFREE_PSP codec codecEntry2 G711A_20MS_2833
set profiles media packetServiceProfile XCODEFREE_PSP codec codecEntry3 OPUS_2833
set profiles media packetServiceProfile XCODEFREE_PSP codec codecEntry4 G722
set profiles media packetServiceProfile XCODEFREE_PSP packetToPacketControl transcode transcoderFreeTransparency
set profiles media packetServiceProfile XCODEFREE_PSP packetToPacketControl codecsAllowedForTranscoding thisLeg ""
set profiles media packetServiceProfile XCODEFREE_PSP packetToPacketControl codecsAllowedForTranscoding otherLeg ""
set profiles media packetServiceProfile XCODEFREE_PSP flags disallowDataCalls disable
set profiles media packetServiceProfile XCODEFREE_PSP flags digitDetectSendEnabled disable
set profiles media packetServiceProfile XCODEFREE_PSP flags useDirectMedia enable
set profiles media packetServiceProfile XCODEFREE_PSP flags validatePeerSupportForDtmfEvents disable
set profiles media packetServiceProfile XCODEFREE_PSP flags interworkDtmfWithoutTranscoding disable
set profiles media packetServiceProfile XCODEFREE_PSP flags dscpPassthrough disable
set profiles media packetServiceProfile XCODEFREE_PSP flags ssrcRandomize disable
set profiles media packetServiceProfile XCODEFREE_PSP flags HDCCodecPreferred disable
set profiles media packetServiceProfile XCODEFREE_PSP flags MatchOfferedCodecGroupIfNbOnly disable
set profiles media packetServiceProfile XCODEFREE_PSP flags forceRoutePSPOrder disable
set profiles media packetServiceProfile XCODEFREE_PSP flags mediaLockDownForPassThrough disable
set profiles media packetServiceProfile XCODEFREE_PSP flags reserveBwForPreferredAudioCommonCodec disable
set profiles media packetServiceProfile XCODEFREE_PSP flags policeOnHeaviestAudioCodec disable
set profiles media packetServiceProfile XCODEFREE_PSP flags t140Call disable
set profiles media packetServiceProfile XCODEFREE_PSP t38 dataRateManagementType type2TransferOfTcf
set profiles media packetServiceProfile XCODEFREE_PSP t38 ecm ecmPreferred disable
set profiles media packetServiceProfile XCODEFREE_PSP t38 lowSpeedNumberOfRedundantPackets 1
set profiles media packetServiceProfile XCODEFREE_PSP t38 maxBitRate 14.4Kbits_s
set profiles media packetServiceProfile XCODEFREE_PSP t38 numberOfRedundantPackets 1
set profiles media packetServiceProfile XCODEFREE_PSP t38 protocolVersion 0
set profiles media packetServiceProfile XCODEFREE_PSP secureRtpRtcp flags allowFallback disable
set profiles media packetServiceProfile XCODEFREE_PSP secureRtpRtcp flags enableSrtp disable
set profiles media packetServiceProfile XCODEFREE_PSP secureRtpRtcp flags resetROCOOnKeyChange disable
set profiles media packetServiceProfile XCODEFREE_PSP secureRtpRtcp flags resetEncDecROCOOnDecKeyChange disable
set profiles media packetServiceProfile XCODEFREE_PSP secureRtpRtcp flags updateCryptoKeysOnModify disable
set profiles media packetServiceProfile XCODEFREE_PSP secureRtpRtcp flags allowPassthru disable
set profiles media packetServiceProfile XCODEFREE_PSP preferredRtpPayloadTypeForDtmfRelay 128
set profiles media packetServiceProfile XCODEFREE_PSP videoCalls maxVideoBandwidth 50000
set profiles media packetServiceProfile XCODEFREE_PSP videoCalls videoBandwidthReductionFactor 20
set profiles media packetServiceProfile XCODEFREE_PSP videoCalls ipv4Tos 0
set profiles media packetServiceProfile XCODEFREE_PSP videoCalls ipv6TrafficClass 0
set profiles media packetServiceProfile XCODEFREE_PSP videoCalls ieee8021QVLANcos 0
set profiles media packetServiceProfile XCODEFREE_PSP videoCalls audioOnlyIfVideoIsPrevented enable
set profiles media packetServiceProfile XCODEFREE_PSP qosValues msrpDscp 0
set profiles media packetServiceProfile XCODEFREE_PSP qosValues dtlsSctpDscp 0
set profiles media packetServiceProfile XCODEFREE_PSP qosValues t140Dscp 0
set profiles media packetServiceProfile XCODEFREE_PSP audioTransparency unknownCodecPacketSize 10
set profiles media packetServiceProfile XCODEFREE_PSP audioTransparency unknownCodecBitRate 124
set profiles media packetServiceProfile XCODEFREE_PSP mediaPacketCos 0
set profiles media packetServiceProfile XCODEFREE_PSP honorRemotePrecedence disable
set profiles media packetServiceProfile XCODEFREE_PSP sendRoutePSPPrecedence disable
set profiles media packetServiceProfile XCODEFREE_PSP dtls dtlsFlags allowDtlsFallback disable
set profiles media packetServiceProfile XCODEFREE_PSP dtls dtlsFlags enableDtlsSrtp disable
set profiles media packetServiceProfile XCODEFREE_PSP dtls dtlsFlags dtlsSctpRelay disable
commit

```

## 2.2 IP Signaling Profile (IPSP)

Create an IP Signaling Profile (IPSP) for the KBS side. The IPSP is specified within the SIP Trunk Group Configuration.

```
set profiles signaling ipSignalingProfile KBS_IPSP ipProtocolType sipOnly
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags addPathServiceRoute disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags addPChargingFuncAddr disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags callHoldInterworking disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags clearmodeForDataCalls disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags createPChargingVector disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags createPathHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags createServiceRouteHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags customizedSessionTimerBehavior disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags disableAlsoHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags disableHostTranslation enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags disableMediaLockDown enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags disableReferToUriParameters disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags discardReceivedReasonHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags doNotIncludeSsAttributeInReInvite
disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags enableDefaultPUIProcedures disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags enableDialStringHandling disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags endToEndBye enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags endToEndReInvite enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags endToEndUpdate enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags endToEndPrack disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags includeIpPortsInFromAndToHeaders
disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags includeReasonHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags includeSsAttributeInInitialInvite
disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags includeTransportTypeInContactHeader
enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags insertPeerAddressAsTopRouteHeader
disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags mapCauseLocation disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags mapSuspendResumeEventInPsvcInfoHeader
disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags mapUuiInPSigInfoHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags mimeCausePrecedeReasonHeaderCause
disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags
minimizeRelayingOfMediaChangesFromOtherCallLegAll enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags
relayDataPathModeChangeFromOtherCallLeg enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags noContentDisposition disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags noPortNumber5060 enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags noUserInfoInContactHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags onlySelectedCodecInSessionRefresh
enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags pCalledPartyIDSupport disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags pChgMsgInfo disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags publishIPInHoldSDP disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags replaceHostOnViaHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags sendRTCPBandwidthInfo disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags reQueryPxxOnRegisterRefresh disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags validateAccessNwInfoHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags restrictHistoryInfoHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags routeUsingRecvdFqdn disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags sdpOlineOnlyCompares disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags
sendAllAllowedCodecsForLateMediaInviteOrReInvite disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags sendDirectMediaInfoInSdpAttribute
enable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags sendPtimeInSdp disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags sessionTimerRefreshUpdate disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags setAcceptHeaderToApplicationSdpOnly
disable
set profiles signaling ipSignalingProfile KBS_IPSP commonIpAttributes flags setOlineDash disable
```



set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	setSessionVersionZero	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	setSlineDash	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	skipPsxQueryForRefer	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	storePathHeader	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	storeServiceRouteHeader	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	terminalPortabilityInterworking	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	sendRtcpPortInSdp	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	storePChargingFuncAddr	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	storePChargingVector	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	createPVisitedNetworkId	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	lockDownPreferredCodec	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	sendOnlyPreferredCodec	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	suppressMinSeIfNotReceived	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	usePsxRouteForRegisteredInvite	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	fromHeaderAnonymisation	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags		
noServiceRouteHdrForEmergencyRegistration				disable	
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	insertPAccessNetworkInfo	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	contactTransparencyForIsFocusMediaTag	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	supportSCSCFRestorationProcedures	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	insertUEFlowInfo	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	acceptAlertInfo	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags	aiToPemInterworking	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	flags		
sendSBCSupportedCodecsForLateMediaReInvite				disable	
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	callTransferFlags		
handleIpAddressesNotPresentInNetworkSelectorTableNst			routeViaTransferringIptg		
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	callTransferFlags	forceReRouteViaPsxQuery	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	callTransferFlags	skipReRouteViaPsxQuery	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	optionTagInRequireHeader	suppressReplaceTag	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	optionTagInSupportedHeader		
suppressReplaceTag			disable		
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	preconditions	State	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	dialogEventPackage	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	dtmfBody	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	info	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	message	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	notify	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	options	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	regEventPackage	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	refer	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	sonusMediaBody	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	statusCode3xx	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	statusCode4xx6xx	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	thirdPartyBodies	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	force503to500Relay	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	publish	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	updateWithoutSdp	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	conferenceEventPackage	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	relayFlags	referToHeaderRelay	
rejectReferIfNoMatchForcallId					
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	acceptContactHeader	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	alertInformationHeader	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	authcodeHeaders	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	passCompleteContactHeader	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	contactHeader	enable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	errorInfo	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	fromHeader	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	historyInfo	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	maxForwardsHeader	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	mwibody	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	pAccessNetworkInfoHeader	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	pCalledPartyID	disable
set profiles signaling ipSignalingProfile	KBS_IPSP	commonIpAttributes	transparencyFlags	pChargingVectorHeader	

disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags pEarlyMedia disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags pVisitedNetworkIDHeader  
 disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags pathHeader enable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags pidfDiffBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags qsigBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags reasonHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags referredByHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags requestURI disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags routeHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags serviceRouteHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags sipBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags sipfragBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags toHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags toneBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags unknownBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags unknownHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags userToUserHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags viaHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags geolocation disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags geolocationRouting disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags geolocationError disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags acceptHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags callInfoHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags resourcePriorityOptionTag  
 disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags simpleFilterBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags pidfBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags watcherInfoBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags rlmBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags externalBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags warningHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags userAgentHeader enable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags serverHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags acceptLanguageHeader  
 disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes transparencyFlags resourceListBody disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes headerEncryptionFlags encryptPathHeader  
 disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes headerEncryptionFlags  
 encryptServiceRouteHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes subscriptionPackageSupport supportRegEvent  
 disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes subscriptionPackageSupport  
 usePSXRouteForSBCInitiatedSubscribe disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP commonIpAttributes registrarRecovery  
 registerToAlternateOnPrimaryDown disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags bgcfTargetSchemeTransparency disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags convertInactiveToSendrecv enable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags disable2806Compliance enable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags disableOptionalRegisterParameters  
 disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags addLoopBackRouteHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags map181Or182MessageTo183 disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags map3xxContactUrlToRouteHeader disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags mapContractorNumberInPSigInfoHeader  
 disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags sameCallIdForRequiredAuthorization  
 enable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags transitPAIFromUnregisteredPeer disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags suppressUnregister disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags ttcIsupMapping disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags useCalledPartyInRequestUri disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags useColonInSdpMediaTypeParameter disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags validateSubAddress disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags qosBasedRouting disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags ignoreSdpAfterOfferAnswerCompleted  
 disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags includeEnumParameters disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes flags monitorRtpOnEgressUpdate disable  
 set profiles signaling ipSignalingProfile KBS\_IPSP egressIpAttributes bci bciInterworkEncountered disable

```

set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes bci bciIsdnAddress disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes domainName preserveIngressFromDomainName
enable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes domainName preserveIngressRUriDomainName
enable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes domainName useLowerCaseDomainNames disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes domainName useSipDomainNameInFromField enable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes domainName useSipDomainNameInRequestUri
enable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes domainName useZoneLevelDomainNameInContact
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes domainName
useIpSignalingPeerDomainInRequestUri disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes domainName useZoneLevelDomainNameInPathHdr
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes domainName useSipDomainInPAIHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes isub allowNsapIsup disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes isub allowUserSpecifiedIsup disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes isub includeCalledPartyIsup disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes isub includeCallingPartyIsup disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes numberPortabilityAttributes npdiOptions
includeNpdiYes
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes numberPortabilityAttributes disableRn disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes privacy transparency enable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes privacy anonymizeHostIpPortion disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes redirect mode acceptRedirection
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes redirect contactHandling
mergeReceivedContacts
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes redirect flags
skipCrankbackProfileAndAlwaysCrankback disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes redirect flags forceRequeryForRedirection
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes redirect flags relayUnusedContactParams
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes redirect flags honorEmbeddedHeadersIn3xx
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters callForwarding
diversionHistoryInfoInterworking disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters callForwarding
dataMapping diversion
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters callForwarding
diversionHeaderTransparency disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters callForwarding
historyInformation includeHistoryInformation disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters
includeChargeInformation includeNone
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters sipToHeaderMapping
none
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters
destinationTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters
originatingTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters generateCallIdUsing
doNotUseIngressCallId
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags includeCic
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags
includeCpcInformation disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags includeNpi
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags includeOlip
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags includePKAdn
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags
includePstnParameters disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags includeQvalue
disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags
skipCSeqCheckInEarlyDialog disable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags
transparencyForDestinationTrunkGroupParameter disable

```

```

set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipHeadersAndParameters flags endToEndAck
enable
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes transport type1 udp
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes transport type2 tcp
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes transport type3 none
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes transport type4 none
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipCauseMapping
internalToSipCauseMappingProfileName ""
set profiles signaling ipSignalingProfile KBS_IPSP egressIpAttributes sipCauseMapping
sipToInternalCauseMappingProfileName ""
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags sip181Supported enable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags sip182Supported enable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags
mapCalledPartyCategoryInPSigInfoHeader disable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags noSdpIn180Supported disable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags registrationExpiresinExpiresHeader
disable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags
send183OnInitiatingDisconnectTreatment disable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags sendSdpIn200OkIf18xReliable enable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags sendSdpInSubsequent18x enable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags sendTLSConnectionFailureResponse
disable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags suppress183For3xxRedirectResponse
enable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags suppress183WithoutSdp enable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags set-cut-through-indication-in-OBCI
disable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes flags sendUpdatedSDPin200Ok enable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes carrierInformation generateTerminatingCa
disable
set profiles signaling ipSignalingProfile KBS_IPSP ingressIpAttributes carrierInformation generateTerminatingCic
disable
set profiles signaling ipSignalingProfile KBS_IPSP trfParameters preferredMrbUri ""
set profiles signaling ipSignalingProfile KBS_IPSP trfParameters preferredTrfUri ""
commit

```

## 2.3 IP Interface Group

The following configuration is for a Ribbon SBC 5400 system using a single port for external connectivity.

```

set addressContext default ipInterfaceGroup PUBLIC_IPIG ipInterface IPIF0 ceName IBMKL1 portName pkt0 ipAddress
115.110.x.x prefix 27
set addressContext default ipInterfaceGroup PUBLIC_IPIG ipInterface IPIF0 mode inService state enabled
commit

```

## 2.4 Zone

a. This Zone groups the set of objects that are used for the communication to KBS Server. Configure the remote device type as appServer.

```

set addressContext default zone KBS_ZONE id 4
set addressContext default zone KBS_ZONE remoteDeviceType appServer
commit

```

b. This Zone groups the set of objects that are used for the communication to KBS Server for multiple registrations of same user. Configure the remote device type appServer.

```
set addressContext default zone KBS_APPLICATION_ZONE id 10
set addressContext default zone KBS_APPLICATION_ZONE remoteDeviceType appServer
commit
```

## 2.5 SIP Signaling Port

a. A SIP Signaling port is a logical address permanently bound to a specific zone which is used to send and receive SIP call signaling packets.

```
set addressContext default zone KBS_ZONE sipSigPort 4 ipInterfaceGroupName PUBLIC_IPIG ipAddressV4 115.110.x.x
portNumber 5060 dscpValue 26 transportProtocolsAllowed sip-udp,sip-tcp
set addressContext default zone KBS_ZONE sipSigPort 4 mode inService state enabled
commit
```

b. Multiple SIP Signaling ports as logical addresses are created to permanently bind to a specific zone for handling multiple registrations of the same user, and which is used to send and receive SIP call signaling packets.

[illegible]

## 2.6 SIP Trunk Group

a. Create SIP Trunk Groups towards the KBS side and PSTN side. Attach the PSP, IPSP that were created in [Section 2.1](#) and [Section 2.2](#).

```
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG state enabled
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG mode inService
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy carrier 0000
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy country 1
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy localizationVariant northAmerica
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy tgIPVersionPreference both-ipv4-and-ipv6
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy preferredIdentity disable
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy digitParameterHandling numberingPlan
ACCESS_NUM_PLAN
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy callRouting elementRoutingPriority TG_ERP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy media packetServiceProfile XCODEFREE_PSP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy services classOfService DEFAULT_IP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy signaling ipSignalingProfile KBS_IPSP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy featureControlProfile DEFAULT_IP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForSip enable
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForH323 disable
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy ingress flags hdPreferredRouting disable
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG policy ingress flags hdSupportedRouting disable
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling retryCounters general 4
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling retryCounters invite 2
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling retryCounters bye 2
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling retryCounters cancel 2
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling retryCounters reInvite 2
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling timers sessionKeepalive 0
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling timers sessionMinSE 0
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling registration insideExpiresMinimum 3500
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling registration bulkRegisterFormat
followIngress
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling relayNonInviteRequest enabled
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling condIncMethInAllowHdr enabled
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling relayReplacesHeader enabled
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling honorMaddrParam enabled
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG signaling embeddedRegInfoInUserPart enabled
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG services dnsSupportType a-srv-naptr
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG services transparencyProfile KBS_TP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG services sipParamFilterProfile PassSupported
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG media directMediaGroupId 201
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG media lateMediaSupport passthru
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG media maxPtimeDefault 20
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG media mediaIpInterfaceGroupName PUBLIC_IPIG
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG media sdpAttributesSelectiveRelay enabled
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG media mediaPortRange baseUdpPort 20000
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG media mediaPortRange maxUdpPort 64000
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_AS_TG ingressIpPrefix 198.17.x.x 32
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG state enabled
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG mode inService
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy carrier 0000
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy country 1
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy localizationVariant northAmerica
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy tgIPVersionPreference both-ipv4-and-ipv6
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy preferredIdentity disable
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy digitParameterHandling numberingPlan
NANP_ACCESS
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy callRouting elementRoutingPriority TG_ERP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy media packetServiceProfile KBS_PSP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy services classOfService DEFAULT_IP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy signaling ipSignalingProfile DEFAULT_SIP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy featureControlProfile DEFAULT_IP
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForSip enable
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForH323 disable
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy ingress flags hdPreferredRouting disable
```

```

set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG policy ingress flags hdSupportedRouting disable
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG signaling retryCounters general 4
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG signaling retryCounters invite 2
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG signaling retryCounters bye 2
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG signaling retryCounters cancel 2
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG signaling retryCounters reInvite 2
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG signaling timers sessionKeepalive 0
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG signaling timers sessionMinSE 0
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG services dnsSupportType a-srv-naptr
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG media directMediaGroupId 201
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG media lateMediaSupport passthru
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG media maxPtimeDefault 20
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG media mediaIpInterfaceGroupName PUBLIC_IPIG
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG media sdpAttributesSelectiveRelay enabled
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG media mediaPortRange baseUdpPort 20000
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG media mediaPortRange maxUdpPort 64000
set addressContext default zone KBS_ZONE sipTrunkGroup KBS_PSTN_TG ingressIpPrefix 198.17.x.x 32
commit

```

b. Create a SIP Trunk Group towards the KBS side. Attach the PSP, IPSP that were created in [Section 2.1](#) and [Section 2.2](#).

```

set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG state enabled
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG mode inService
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy carrier 0000
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy country 1
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy localizationVariant
northAmerica
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy tgIPVersionPreference
both-ipv4-and-ipv6
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy preferredIdentity
disable
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy
digitParameterHandling numberingPlan ACCESS_NUM_PLAN
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy callRouting
elementRoutingPriority TG_ERP
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy media
packetServiceProfile XCODEFREE_PSP
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy services
classOfService DEFAULT_IP
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy signaling
ipSignalingProfile KBS_IPSP
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy featureControlProfile
DEFAULT_IP
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForSip enable
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForH323 disable
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy ingress flags
hdPreferredRouting disable
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG policy ingress flags
hdSupportedRouting disable
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling
messageManipulation inputAdapterProfile kbsInputAdaptor
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling retryCounters
general 4
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling retryCounters
invite 2
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling retryCounters bye 2
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling retryCounters
cancel 2
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling retryCounters
reInvite 2
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling timers
sessionKeepalive 0
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling timers
sessionMinSE 0
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling registration

```



```

insideExpiresMinimum 3500
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling registration
bulkRegisterFormat followIngress
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling
relayNonInviteRequest enabled
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling
condIncMethInAllowHdr enabled
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling
relayReplacesHeader enabled
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG signaling honorMaddrParam
enabled
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG services dnsSupportType a-
srv-naptr
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG services transparencyProfile
KBS_TP
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG services
sipParamFilterProfile PassSupported
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG media directMediaGroupId 201
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG media lateMediaSupport
passthru
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG media maxPtimeDefault 20
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG media
mediaIpInterfaceGroupName PUBLIC_IPIG
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG media
sdpAttributesSelectiveRelay enabled
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG media mediaPortRange
baseUdpPort 20000
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG media mediaPortRange
maxUdpPort 64000
set addressContext default zone KBS_APPLICATION_ZONE sipTrunkGroup KBS_APPLICATION_TG ingressIpPrefix 198.17.x.x 32
commit

```

## 2.7 IP Static Route

Create a default route to the subnet's next hop IP for the external interface and IP Interface Group.

```

set addressContext default staticRoute 0.0.0.0 0 115.110.x.x PUBLIC_IPIG IPIF0 preference 100
commit

```

## 2.8 IP Peer

a. Create an IP Peer with the ipAddress and port Number of the destinations and assign it to the KBS Zone and KBS\_APPLICATION\_ZONE.

```

set addressContext default zone KBS_ZONE ipPeer NVS_UA_PEER ipAddress 198.17.x.x
set addressContext default zone KBS_ZONE ipPeer NVS_UA_PEER ipPort 5060
set addressContext default zone KBS_ZONE ipPeer NVS_UA_PEER policy description ""
set addressContext default zone KBS_ZONE ipPeer NVS_UA_PEER policy sip fqdn ""
set addressContext default zone KBS_ZONE ipPeer NVS_UA_PEER policy sip fqdnPort 0
set addressContext default zone KBS_ZONE ipPeer NVS_UA_PEER pathCheck profile Options60
set addressContext default zone KBS_ZONE ipPeer NVS_UA_PEER pathCheck state enabled
set addressContext default zone KBS_ZONE ipPeer KBS_PSTN_PEER ipAddress 198.17.x.x
set addressContext default zone KBS_ZONE ipPeer KBS_PSTN_PEER ipPort 5060
set addressContext default zone KBS_ZONE ipPeer KBS_PSTN_PEER policy description ""
set addressContext default zone KBS_ZONE ipPeer KBS_PSTN_PEER policy sip fqdn ""
set addressContext default zone KBS_ZONE ipPeer KBS_PSTN_PEER policy sip fqdnPort 0
set addressContext default zone KBS_APPLICATION_ZONE ipPeer NVS_APPL_PEER ipAddress 198.17.x.x
set addressContext default zone KBS_APPLICATION_ZONE ipPeer NVS_APPL_PEER ipPort 5060
set addressContext default zone KBS_APPLICATION_ZONE ipPeer NVS_APPL_PEER policy description ""
set addressContext default zone KBS_APPLICATION_ZONE ipPeer NVS_APPL_PEER policy sip fqdn ""
set addressContext default zone KBS_APPLICATION_ZONE ipPeer NVS_APPL_PEER policy sip fqdnPort 0
set addressContext default zone KBS_APPLICATION_ZONE ipPeer NVS_APPL_PEER pathCheck profile Options60
set addressContext default zone KBS_APPLICATION_ZONE ipPeer NVS_APPL_PEER pathCheck state enabled
commit

```

## 3. PSTN Leg Configuration

### 3.1 Packet Service Profile (PSP)

A DEFAULT Packet Service Profile (PSP) is attached to PSTN side. The configuration is as follows:

```
set profiles media packetServiceProfile DEFAULT dataCalls preferredRtpDataPayloadType 56
set profiles media packetServiceProfile DEFAULT dataCalls initialPlayoutBufferDelay 50
set profiles media packetServiceProfile DEFAULT dataCalls packetSize 20
set profiles media packetServiceProfile DEFAULT silenceFactor 40
set profiles media packetServiceProfile DEFAULT typeOfService 0
set profiles media packetServiceProfile DEFAULT voiceInitialPlayoutBufferDelay 10
set profiles media packetServiceProfile DEFAULT rtcpOptions rtcp disable
set profiles media packetServiceProfile DEFAULT peerAbsenceAction none
set profiles media packetServiceProfile DEFAULT silenceInsertionDescriptor g711SidRtpPayloadType 19
set profiles media packetServiceProfile DEFAULT silenceInsertionDescriptor heartbeat enable
set profiles media packetServiceProfile DEFAULT aallPayloadSize 47
set profiles media packetServiceProfile DEFAULT codec codecEntry1 G711-DEFAULT
set profiles media packetServiceProfile DEFAULT packetToPacketControl transcode conditional
set profiles media packetServiceProfile DEFAULT packetToPacketControl conditionsInAdditionToNoCommonCodec
applyFaxToneTreatment disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl conditionsInAdditionToNoCommonCodec
differentDtmfRelay disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl conditionsInAdditionToNoCommonCodec
differentPacketSize disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl conditionsInAdditionToNoCommonCodec
differentSilenceSuppression disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl conditionsInAdditionToNoCommonCodec
honorOfferPreference disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl conditionsInAdditionToNoCommonCodec
honorAnswerPreference disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl conditionsInAdditionToNoCommonCodec
different2833PayloadType disable
set profiles media packetServiceProfile DEFAULT packetToPacketControl codecsAllowedForTranscoding thisLeg ""
set profiles media packetServiceProfile DEFAULT packetToPacketControl codecsAllowedForTranscoding otherLeg ""
set profiles media packetServiceProfile DEFAULT flags disallowDataCalls disable
set profiles media packetServiceProfile DEFAULT flags digitDetectSendEnabled disable
set profiles media packetServiceProfile DEFAULT flags useDirectMedia disable
set profiles media packetServiceProfile DEFAULT flags validatePeerSupportForDtmfEvents disable
set profiles media packetServiceProfile DEFAULT flags interworkDtmfWithoutTranscoding disable
set profiles media packetServiceProfile DEFAULT flags dscpPassthrough disable
set profiles media packetServiceProfile DEFAULT flags ssrcRandomize disable
set profiles media packetServiceProfile DEFAULT flags HDCodecPreferred disable
set profiles media packetServiceProfile DEFAULT flags MatchOfferedCodecGroupIfNbOnly disable
set profiles media packetServiceProfile DEFAULT flags forceRoutePSPOrder disable
set profiles media packetServiceProfile DEFAULT flags mediaLockDownForPassThrough disable
set profiles media packetServiceProfile DEFAULT flags reserveBwForPreferredAudioCommonCodec disable
set profiles media packetServiceProfile DEFAULT flags policeOnHeaviestAudioCodec disable
set profiles media packetServiceProfile DEFAULT flags t140Call disable
set profiles media packetServiceProfile DEFAULT t38 dataRateManagementType type2TransferOfTcf
set profiles media packetServiceProfile DEFAULT t38 ecm ecmPreferred disable
set profiles media packetServiceProfile DEFAULT t38 lowSpeedNumberOfRedundantPackets 1
set profiles media packetServiceProfile DEFAULT t38 maxBitRate 14.4Kbits_s
set profiles media packetServiceProfile DEFAULT t38 numberOfRedundantPackets 1
set profiles media packetServiceProfile DEFAULT t38 protocolVersion 0
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags allowFallback disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags enableSrtp disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags resetROConKeyChange disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags resetEncDecROConDecKeyChange disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags updateCryptoKeysOnModify disable
set profiles media packetServiceProfile DEFAULT secureRtpRtcp flags allowPassthru disable
set profiles media packetServiceProfile DEFAULT preferredRtpPayloadTypeForDtmfRelay 128
set profiles media packetServiceProfile DEFAULT videoCalls maxVideoBandwidth 0
set profiles media packetServiceProfile DEFAULT videoCalls videoBandwidthReductionFactor 0
set profiles media packetServiceProfile DEFAULT videoCalls ipv4Tos 0
set profiles media packetServiceProfile DEFAULT videoCalls ipv6TrafficClass 0
set profiles media packetServiceProfile DEFAULT videoCalls ieee8021QVLanCos 0
set profiles media packetServiceProfile DEFAULT videoCalls audioOnlyIfVideoIsPrevented enable
set profiles media packetServiceProfile DEFAULT qosValues msrpDscp 0
```

```

set profiles media packetServiceProfile DEFAULT qosValues dtlsSctpDscp 0
set profiles media packetServiceProfile DEFAULT qosValues t140Dscp 0
set profiles media packetServiceProfile DEFAULT audioTransparency unknownCodecPacketSize 10
set profiles media packetServiceProfile DEFAULT audioTransparency unknownCodecBitRate 124
set profiles media packetServiceProfile DEFAULT mediaPacketCos 0
set profiles media packetServiceProfile DEFAULT honorRemotePrecedence disable
set profiles media packetServiceProfile DEFAULT sendRoutePSPPrecedence disable
set profiles media packetServiceProfile DEFAULT dtls dtlsFlags allowDtlsFallback disable
set profiles media packetServiceProfile DEFAULT dtls dtlsFlags enableDtlsSrtp disable
set profiles media packetServiceProfile DEFAULT dtls dtlsFlags dtlsSctpRelay disable
commit

```

## 3.2 IP Signaling Profile (IPSP)

A DEFAULT\_SIP IPSP configuration is as follows:

```

set profiles signaling ipSignalingProfile DEFAULT_SIP ipProtocolType sipOnly
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags addPathServiceRoute disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags addPChargingFuncAddr disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags callHoldInterworking disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags clearmodeForDataCalls disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags createPChargingVector disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags createPathHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags createServiceRouteHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags customizedSessionTimerBehavior
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags disableAlsoHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags disableHostTranslation disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags disableMediaLockDown disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags disableReferToUriParameters disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags discardReceivedReasonHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags doNotIncludeSsAttributeInReInvite
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags enableDefaultPUIProcedures disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags enableDialStringHandling disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags endToEndBye disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags endToEndReInvite disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags endToEndUpdate disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags endToEndPrack disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags includeIpPortsInFromAndToHeaders
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags includeReasonHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags includeSsAttributeInInitialInvite
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags includeTransportTypeInContactHeader
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags insertPeerAddressAsTopRouteHeader
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags mapCauseLocation disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags
mapSuspendResumeEventInPSvcInfoHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags mapUuiInSigInfoHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags mimeCausePrecedeReasonHeaderCause
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags
minimizeRelayingOfMediaChangesFromOtherCallLegAll disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags noContentDisposition disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags noPortNumber5060 disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags noUserInfoInContactHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags onlySelectedCodecInSessionRefresh
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags pCalledPartyIDSupport disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags pChgMsgInfo disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags publishIPInHoldSDP disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags rejectRefer disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags replaceHostOnViaHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags sendRTCPBandwidthInfo disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags reQueryPxsOnRegisterRefresh disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags validateAccessNwInfoHeader disable

```

```

set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags restrictHistoryInfoHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags routeUsingRecvdFqdn disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags sdpOlineOnlyCompares disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags
sendAllAllowedCodecsForLateMediaInviteOrReInvite disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags sendDirectMediaInfoInSdpAttribute
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags sendPtimeInSdp disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags sessionTimerRefreshUpdate disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags setAcceptHeaderToApplicationSdpOnly
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags setOlineDash disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags setSessionVersionZero disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags setSlineDash disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags skipPsxQueryForRefer disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags storePathHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags storeServiceRouteHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags terminalPortabilityInterworking
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags sendRtcpPortInSdp disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags storePChargingFuncAddr disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags storePChargingVector disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags createPVisitedNetworkId disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags lockDownPreferredCodec disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags sendOnlyPreferredCodec disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags suppressMinSeIfNotReceived disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags usePsxRouteForRegisteredInvite
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags fromHeaderAnonymisation disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags
noServiceRouteHdrForEmergencyRegistration disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags insertPAccessNetworkInfo disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags
contactTransparencyForIsFocusMediaTag disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags supportSCSCFRestorationProcedures
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags insertUEFlowInfo disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags acceptAlertInfo disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags aiToPemInterworking disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes flags
sendSBCSupportedCodecsForLateMediaReInvite disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes callTransferFlags
handleIpAddressesNotPresentInNetworkSelectorTableNst routeViaTransferringIptg
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes callTransferFlags forceReRouteViaPsxQuery
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes callTransferFlags skipReRouteViaPsxQuery
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes optionTagInRequireHeader
suppressReplaceTag disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes optionTagInSupportedHeader
suppressReplaceTag disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes preconditions State disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags dialogEventPackage disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags dtmfBody disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags info disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags message disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags notify disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags options disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags regEventPackage disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags refer disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags sonusMediaBody disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags statusCode3xx disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags statusCode4xx6xx disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags thirdPartyBodies disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags force503to500Relay disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags publish disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags updateWithoutSdp disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags conferenceEventPackage disable
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes relayFlags referToHeaderRelay
rejectReferIfNoMatchForcallId
set profiles signaling ipSignalingProfile DEFAULT_SIP commonIpAttributes transparencyFlags acceptContactHeader
disable

```

set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	alertInformationHeader	
disable					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	authcodeHeaders	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags		
passCompleteContactHeader					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	contactHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	errorInfo	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	fromHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	historyInfo	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	maxForwardsHeader	
disable					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	mwibody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags		
pAccessNetworkInfoHeader					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	pCalledPartyID	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	pChargingVectorHeader	
disable					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	pEarlyMedia	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	pVisitedNetworkIDHeader	
disable					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	pathHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	pidfDiffBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	qsigBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	reasonHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	referredByHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	requestURI	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	routeHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	serviceRouteHeader	
disable					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	sipBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	sipfragBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	toHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	toneBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	unknownBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	unknownHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	userToUserHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	viaHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	geolocation	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	geolocationRouting	
disable					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	geolocationError	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	acceptHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	callInfoHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags		
resourcePriorityOptionTag					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	simpleFilterBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	pidfBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	watcherInfoBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	rlmiBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	externalBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	warningHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	userAgentHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	serverHeader	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	acceptLanguageHeader	
disable					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	transparencyFlags	resourceListBody	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	headerEncryptionFlags	encryptPathHeader	
disable					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	headerEncryptionFlags		
encryptServiceRouteHeader					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	subscriptionPackageSupport		
supportRegEvent					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	subscriptionPackageSupport		
usePSXRouteForSBCInitiatedSubscribe					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	commonIpAttributes	registrarRecovery		
registerToAlternateOnPrimaryDown					
set profiles signaling ipSignalingProfile	DEFAULT_SIP	egressIpAttributes	numberGlobalizationProfile	DEFAULT_IP	
set profiles signaling ipSignalingProfile	DEFAULT_SIP	egressIpAttributes	phoneContextParameterLength	0	
set profiles signaling ipSignalingProfile	DEFAULT_SIP	egressIpAttributes	flags	bgcfTargetSchemeTransparency	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	egressIpAttributes	flags	convertInactiveToSendrecv	disable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	egressIpAttributes	flags	disable2806Compliance	enable
set profiles signaling ipSignalingProfile	DEFAULT_SIP	egressIpAttributes	flags	disableOptionalRegisterParameters	

disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags addLoopBackRouteHeader disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags map1810r182MessageTo183 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags map3xxContactUrlToRouteHeader  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags mapContractorNumberInPSigInfoHeader  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags transitPAIFromUnregisteredPeer  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags suppressUnregister disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags ttcIsupMapping disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags useCalledPartyInRequestUri disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags useColonInSdpMediaTypeParameter  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags validateIsupAddress disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags qosBasedRouting disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags ignoreSdpAfterOfferAnswerCompleted  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags includeEnumParameters disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes flags monitorRtpOnEgressUpdate disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes bci bciInterworkEncountered disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes bci bciIsdnAddress disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes domainName useSipDomainNameInFromField  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes domainName useSipDomainNameInRequestUri  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes domainName  
 useZoneLevelDomainNameInContact disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes domainName  
 useIpSignalingPeerDomainInRequestUri disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes domainName  
 useZoneLevelDomainNameInPathHdr disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes domainName useSipDomainInPAIHeader disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes isub allowNsnipSub disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes isub allowUserSpecifiedIsup disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes isub includeCalledPartyIsup disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes isub includeCallingPartyIsup disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes numberPortabilityAttributes npdiOptions  
 includeNpdi  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes numberPortabilityAttributes disableRn  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes privacy transparency disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes privacy privacyInformation pPreferredId  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes privacy flags includePrivacy enable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes privacy flags privacyRequiredByProxy  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes privacy flags msLyncPrivacySupport disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes privacy flags  
 includeEmbeddedPAIheaderInRedirectedInvite disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes redirect mode acceptRedirection  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes redirect contactHandling  
 mergeReceivedContacts  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes redirect flags  
 skipCrankbackProfileAndAlwaysCrankback disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes redirect flags forceRequeryForRedirection  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes redirect flags relayUnusedContactParams  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes redirect flags honorEmbeddedHeadersIn3xx  
 disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes sipHeadersAndParameters callForwarding  
 diversionHistoryInfoInterworking disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes sipHeadersAndParameters callForwarding  
 dataMapping diversion  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes sipHeadersAndParameters callForwarding  
 diversionHeaderTransparency disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes sipHeadersAndParameters callForwarding  
 historyInformation includeHistoryInformation disable  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes sipHeadersAndParameters  
 includeChargeInformation includeNone  
 set profiles signaling ipSignalingProfile DEFAULT\_SIP egressIpAttributes sipHeadersAndParameters  
 sipToHeaderMapping none

```

set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters
destinationTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters
originatingTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters
generateCallIdUsing doNotUseIngressCallId
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags includeCic
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags
includeCpcInformation disable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags includeNpi
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags includeOlip
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags
includePKAdn disable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags
includePstnParameters disable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags
includeQvalue disable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags
skipCSeqCheckInEarlyDialog disable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags
transparencyForDestinationTrunkGroupParameter enable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipHeadersAndParameters flags endToEndAck
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes transport type1 none
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes transport type2 none
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes transport type3 none
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes transport type4 none
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipCauseMapping
internalToSipCauseMappingProfileName ""
set profiles signaling ipSignalingProfile DEFAULT_SIP egressIpAttributes sipCauseMapping
sipToInternalCauseMappingProfileName ""
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags sip181Supported disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags sip182Supported disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags
mapCalledPartyCategoryInPSigInfoHeader disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags noSdpIn180Supported disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags registrationExpiresInExpiresHeader
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags
send183OnInitiatingDisconnectTreatment disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags sendSdpIn200OkIf18xReliable disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags sendSdpInSubsequent18x disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags sendTLSConnectionFailureResponse
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags suppress183For3xxRedirectResponse
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags suppress183WithoutSdp disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags set-cut-through-indication-in-OBCI
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes flags sendUpdatedSDPin200Ok disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes carrierInformation generateTerminatingCa
disable
set profiles signaling ipSignalingProfile DEFAULT_SIP ingressIpAttributes carrierInformation
generateTerminatingCic disable
set profiles signaling ipSignalingProfile DEFAULT_SIP trfParameters preferredMrbUri ""
set profiles signaling ipSignalingProfile DEFAULT_SIP trfParameters preferredTrfUri ""
commit

```

### 3.3 IP Interface Group

The IP Interface Group towards PSTN is as follows:

```

set addressContext default zone PSTN_ZONE sipSigPort 5 ipInterfaceGroupName PUBLIC_IPIG ipAddressV4 115.110.x.x
portNumber 5080 dscpValue 26 transportProtocolsAllowed sip-udp,sip-tcp
commit

```

### 3.4 Zone

This Zone groups the set of objects that are used for communication to PSTN in the external network.

```
set addressContext default zone PSTN_ZONE id 5
commit
```

### 3.5 SIP Signaling Port

A SIP Signaling port is a logical address permanently bound to a specific zone in order to send and receive SIP call signaling packets.

```
set addressContext default zone PSTN_ZONE sipSigPort 5 ipInterfaceGroupName PUBLIC_IPIG ipAddressV4 115.110.x.x
portNumber 5080 dscpValue 26 transportProtocolsAllowed sip-udp,sip-tcp
set addressContext default zone PSTN_ZONE sipSigPort 5 mode inService state enabled
commit
```

### 3.6 SIP Trunk Group

Create a SIP Trunk Group towards the PSTN side and assign the PSP and IPSP as configured in [Section 3.1](#) and [Section 3.2](#).

```
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE state enabled
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE mode inService
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy carrier 0000
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy country 1
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy localizationVariant northAmerica
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy tgIPVersionPreference both-ipv4-and-ipv6
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy preferredIdentity disable
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy digitParameterHandling numberingPlan
NANP_ACCESS
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy callRouting elementRoutingPriority
DEFAULT_IP
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy media packetServiceProfile DEFAULT
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy services classOfService DEFAULT_IP
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy signaling ipSignalingProfile DEFAULT_SIP
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy featureControlProfile DEFAULT_IP
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy ingress flags
nonZeroVideoBandwidthBasedRoutingForSip enable
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy ingress flags
nonZeroVideoBandwidthBasedRoutingForH323 disable
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy ingress flags hdPreferredRouting disable
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE policy ingress flags hdSupportedRouting disable
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE signaling messageManipulation
inputAdapterProfile anonymousInputAdaptor3
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE media mediaIpInterfaceGroupName PUBLIC_IPIG
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE ingressIpPrefix 115.110.x.x 32
set addressContext default zone PSTN_ZONE sipTrunkGroup PSTN_PHONE ingressIpPrefix 115.110.x.x 32
commit
```

### 3.7 IP Peer

Create an IP Peer with the IP address of the endpoint and assign it to the PSTN Side.



```

set addressContext default zone PSTN_ZONE ipPeer PHONE ipAddress 115.110.x.x
set addressContext default zone PSTN_ZONE ipPeer PHONE ipPort 5060
set addressContext default zone PSTN_ZONE ipPeer PHONE policy description ""
set addressContext default zone PSTN_ZONE ipPeer PHONE policy sip fqdn ""
set addressContext default zone PSTN_ZONE ipPeer PHONE policy sip fqdnPort 0
set addressContext default zone PSTN_ZONE ipPeer PHONE2 ipAddress 115.110.x.x
set addressContext default zone PSTN_ZONE ipPeer PHONE2 ipPort 5060
set addressContext default zone PSTN_ZONE ipPeer PHONE2 policy description ""
set addressContext default zone PSTN_ZONE ipPeer PHONE2 policy sip fqdn ""
set addressContext default zone PSTN_ZONE ipPeer PHONE2 policy sip fqdnPort 0
commit

```

## 4. Access Leg Configuration

### 4.1 Packet Service Profile (PSP)

The Packet Service Profile (PSP) on the Access leg is "XCODEFREE\_PSP". It's the same PSP used on the KBS side.

### 4.2 IP Signaling Profile (IPSP)

An IP Signaling Profile (IPSP) for the Access side is configured. The IPSP is specified within the SIP Trunk Group Configuration.

```

set profiles signaling ipSignalingProfile ACCESS_IPSP ipProtocolType sipOnly
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags addPathServiceRoute disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags addPChargingFuncAddr disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags callHoldInterworking disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags clearmodeForDataCalls disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags createPChargingVector disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags createPathHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags createServiceRouteHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags customizedSessionTimerBehavior
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags disableAlsoHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags disableHostTranslation enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags disableMediaLockDown enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags disableReferToUriParameters disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags discardReceivedReasonHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags doNotIncludeSsAttributeInReInvite
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags enableDefaultPUIProcedures disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags enableDialStringHandling disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags endToEndBye enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags endToEndReInvite enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags endToEndUpdate enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags endToEndPrack disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags includeIpPortsInFromAndToHeaders
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags includeReasonHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags includeSsAttributeInInitialInvite
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags includeTransportTypeInContactHeader
enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags insertPeerAddressAsTopRouteHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags mapCauseLocation disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags
mapSuspendResumeEventInPSvcInfoHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags mapUuiInSigInfoHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags mimeCausePrecedeReasonHeaderCause
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags
minimizeRelayingOfMediaChangesFromOtherCallLegAll enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags
relayDataPathModeChangeFromOtherCallLeg enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags noContentDisposition disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags noPortNumber5060 enable

```

set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags noUserInfoInContactHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags onlySelectedCodecInSessionRefresh enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags pCalledPartyIDSupport disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags pChgMsgInfo disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags publishIPInHoldSDP disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags replaceHostOnViaHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags sendRTCPBandwidthInfo disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags reQueryPxxOnRegisterRefresh disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags validateAccessNwInfoHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags restrictHistoryInfoHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags routeUsingRecvFqdn disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags sdpOlineOnlyCompares disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags
sendAllAllowedCodecsForLateMediaInviteOrReInvite disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags sendDirectMediaInfoInSdpAttribute disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags sendPtimeInSdp disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags sessionTimerRefreshUpdate disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags setAcceptHeaderToApplicationSdpOnly disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags setOlineDash disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags setSessionVersionZero disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags setSlineDash disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags skipPxxQueryForRefer disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags storePathHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags storeServiceRouteHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags terminalPortabilityInterworking disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags sendRtcpPortInSdp disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags storePChargingFuncAddr disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags storePChargingVector enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags createPvisitedNetworkId disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags lockDownPreferredCodec disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags sendOnlyPreferredCodec disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags suppressMinSeIfNotReceived disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags usePxxRouteForRegisteredInvite disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags fromHeaderAnonymisation disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags
noServiceRouteHdrForEmergencyRegistration disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags insertPAccessNetworkInfo disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags
contactTransparencyForIsFocusMediaTag disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags supportSCSCFRestorationProcedures disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags insertUEFlowInfo disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags acceptAlertInfo disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags aiToPemInterworking disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes flags
sendSBCSupportedCodecsForLateMediaReInvite disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes callTransferFlags
handleIpAddressesNotPresentInNetworkSelectorTableNst routeViaTransferringIptg
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes callTransferFlags forceReRouteViaPxxQuery disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes callTransferFlags skipReRouteViaPxxQuery disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes optionTagInRequireHeader
suppressReplaceTag disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes optionTagInSupportedHeader
suppressReplaceTag disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes preconditions State disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags dialogEventPackage enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags dtmfBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags info enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags message disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags notify enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags options enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags regEventPackage disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags refer enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags sonusMediaBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags statusCode3xx enable

set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags statusCode4xx6xx enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags thirdPartyBodies disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags force503to500Relay disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags publish disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags updateWithoutSdp enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags conferenceEventPackage disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes relayFlags referToHeaderRelay
rejectReferIfnoMatchForcallId
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags acceptContactHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags alertInformationHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags authcodeHeaders enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags
passCompleteContactHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags contactHeader enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags errorInfo disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags fromHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags historyInfo disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags maxForwardsHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags mwiBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags
pAccessNetworkInfoHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags pCalledPartyID disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags pChargingVectorHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags pEarlyMedia disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags pVisitedNetworkIDHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags pathHeader enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags pdfDiffBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags qsigBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags reasonHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags referredByHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags requestURI disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags routeHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags serviceRouteHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags sipBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags sipfragBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags toHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags toneBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags unknownBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags unknownHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags userToUserHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags viaHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags geolocation disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags geolocationRouting
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags geolocationError disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags acceptHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags callInfoHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags
resourcePriorityOptionTag disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags simpleFilterBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags pdfBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags watcherInfoBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags rlmBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags externalBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags warningHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags userAgentHeader enable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags serverHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags acceptLanguageHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes transparencyFlags resourceListBody disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes headerEncryptionFlags encryptPathHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes headerEncryptionFlags
encryptServiceRouteHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes subscriptionPackageSupport
supportRegEvent disable

```

set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes subscriptionPackageSupport
usePSXRouteForSBCInitiatedSubscribe disable
set profiles signaling ipSignalingProfile ACCESS_IPSP commonIpAttributes registrarRecovery
registerToAlternateOnPrimaryDown disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags bgcfTargetSchemeTransparency disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags convertInactiveToSendrecv enable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags disable2806Compliance enable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags disableOptionalRegisterParameters
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags addLoopBackRouteHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags map181Or182MessageTo183 disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags map3xxContactUrlToRouteHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags mapContractorNumberInPSigInfoHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags sameCallIdForRequiredAuthorization
enable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags transitPAIFromUnregisteredPeer
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags suppressUnregister disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags ttcIsupMapping disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags useCalledPartyInRequestUri disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags useColonInSdpMediaTypeParameter
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags validateIsupAddress disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags qosBasedRouting disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags ignoreSdpAfterOfferAnswerCompleted
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags includeEnumParameters disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes flags monitorRtpOnEgressUpdate disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes bci bciInterworkEncountered disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes bci bciIsdnAddress disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes domainName preserveIngressFromDomainName
enable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes domainName preserveIngressRUriDomainName
enable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes domainName useLowerCaseDomainNames disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes domainName useSipDomainNameInFromField
enable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes domainName useSipDomainNameInRequestUri
enable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes domainName
useZoneLevelDomainNameInContact disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes domainName
useIpSignalingPeerDomainInRequestUri disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes domainName
useZoneLevelDomainNameInPathHdr disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes domainName useSipDomainInPAIHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes isub allowNsapIsup disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes isub allowUserSpecifiedIsup disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes isub includeCalledPartyIsup disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes isub includeCallingPartyIsup disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes numberPortabilityAttributes npdiOptions
includeNpdiYes
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes numberPortabilityAttributes disableRn
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes privacy transparency enable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes privacy anonymizeHostIpPortion disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes redirect mode acceptRedirection
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes redirect contactHandling
mergeReceivedContacts
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes redirect flags
skipCrankbackProfileAndAlwaysCrankback disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes redirect flags forceRequeryForRedirection
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes redirect flags relayUnusedContactParams
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes redirect flags honorEmbeddedHeadersIn3xx
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters callForwarding
diversionHistoryInfoInterworking disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters callForwarding

```

```

dataMapping diversion
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters callForwarding
diversionHeaderTransparency disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters callForwarding
historyInformation includeHistoryInformation disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters
includeChargeInformation includeNone
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters
sipToHeaderMapping none
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters
destinationTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters
originatingTrunkGroupOptions includeNone
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters
generateCallIdUsing doNotUseIngressCallId
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags includeCic
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags
includeCpcInformation disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags includeNpi
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags includeOlip
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags
includePKAdn disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags
includePstnParameters disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags
includeQvalue disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags
skipCSeqCheckInEarlyDialog disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags
transparencyForDestinationTrunkGroupParameter disable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipHeadersAndParameters flags endToEndAck
enable
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes transport type1 udp
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes transport type2 tcp
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes transport type3 none
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes transport type4 none
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipCauseMapping
internalToSipCauseMappingProfileName ""
set profiles signaling ipSignalingProfile ACCESS_IPSP egressIpAttributes sipCauseMapping
sipToInternalCauseMappingProfileName ""
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags sip181Supported disable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags sip182Supported disable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags
mapCalledPartyCategoryInPSigInfoHeader disable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags noSdpIn180Supported disable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags registrationExpiresInExpiresHeader
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags
send183OnInitiatingDisconnectTreatment disable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags sendSdpIn200OkIf18xReliable enable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags sendSdpInSubsequent18x enable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags sendTLSConnectionFailureResponse
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags suppress183For3xxRedirectResponse
enable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags suppress183WithoutSdp enable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags set-cut-through-indication-in-OBICI
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes flags sendUpdatedSDPin200Ok enable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes carrierInformation generateTerminatingCa
disable
set profiles signaling ipSignalingProfile ACCESS_IPSP ingressIpAttributes carrierInformation
generateTerminatingCic disable
set profiles signaling ipSignalingProfile ACCESS_IPSP trfParameters preferredMrbUri ""
set profiles signaling ipSignalingProfile ACCESS_IPSP trfParameters preferredTrfUri ""
commit

```

### 4.3 IP Interface Group

The following configuration is for Access side endpoints behind a SIRIS SBC.

```
set addressContext default zone ACCESS_ZONE sipSigPort 2 ipInterfaceGroupName INTERNAL_IPIG ipAddressV4 172.16.x.x
portNumber 5060 dscpValue 26 transportProtocolsAllowed sip-udp,sip-tcp
set addressContext default zone ACCESS_ZONE sipSigPort 2 mode inService state enabled
commit
```

## 4.4 Zone

This Zone groups the set of objects that are used for communication to endpoints in the internal network.

```
set addressContext default zone ACCESS_ZONE id 2
set addressContext default zone ACCESS_ZONE remoteDeviceType accessDevice
commit
```

## 4.5 SIP Signaling Port

A SIP Signaling port is a logical address permanently bound to a specific zone in order to send and receive SIP call signaling packets.

```
set addressContext default zone ACCESS_ZONE sipSigPort 2 ipInterfaceGroupName INTERNAL_IPIG ipAddressV4 172.16.x.x
portNumber 5060 dscpValue 26 transportProtocolsAllowed sip-udp,sip-tcp
set addressContext default zone ACCESS_ZONE sipSigPort 2 mode inService state enabled
commit
```

## 4.6 SIP Trunk Group

Create a SIP Trunk Group towards the Access Leg as shown below:

```

set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG state enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG mode inService
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy carrier 0000
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy country 1
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy localizationVariant northAmerica
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy tgIPVersionPreference both-ipv4-and-ipv6
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy preferredIdentity disable
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy digitParameterHandling numberingPlan
ACCESS_NUM_PLAN
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy digitParameterHandling ingressDmPmRule
USRPH_IGNORE
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy callRouting elementRoutingPriority
TG_ERP
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy media packetServiceProfile XCODEFREE_PSP
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy services classOfService DEFAULT_IP
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy signaling ipSignalingProfile ACCESS_IPSP
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy featureControlProfile DEFAULT_IP
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForSip enable
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForH323 disable
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy ingress flags hdPreferredRouting disable
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG policy ingress flags hdSupportedRouting disable
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling messageManipulation
outputAdapterProfile accessOutputAdapter
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling timers sessionKeepalive 0
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling timers sessionMinSE 0
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling registration requireRegistration
required
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling registration insideExpiresMinimum
3500
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling rel100Support disabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling relayNonInviteRequest enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling psxRouteForSubscribe enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling condIncMethInAllowHdr enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling sipFilterProfile ProxyRequirePass
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG signaling clearTcpConnectionsforRegistration
enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG services dnsSupportType a-srv-naptr
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG services natTraversal signalingNat enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG services natTraversal mediaNat enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG services transparencyProfile ACCESS_TP
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG services sipParamFilterProfile PassSupported
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG services retryProfile retryProf1
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG media directMediaAllowed enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG media directMediaAllowedBehindNapt enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG media directMediaGroupId 101
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG media lateMediaSupport passthru
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG media maxPtimeDefault 20
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG media mediaIpInterfaceGroupName INTERNAL_IPIG
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG media sdpAttributesSelectiveRelay enabled
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG media mediaPortRange baseUdpPort 20000
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG media mediaPortRange maxUdpPort 64000
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG callRouting useRouteSet stored
set addressContext default zone ACCESS_ZONE sipTrunkGroup ACCESS_TG ingressIpPrefix 0.0.0.0 0
set addressContext default zone defaultSigZone id 1
commit

```

## 4.7 IP Peer

Create an IP Peer using the IP address of the endpoint and assign it to the PSTN Side.

```

set addressContext default zone PSTN_ZONE ipPeer PHONE ipAddress 115.110.x.x
set addressContext default zone PSTN_ZONE ipPeer PHONE ipPort 5060
set addressContext default zone PSTN_ZONE ipPeer PHONE policy description ""
set addressContext default zone PSTN_ZONE ipPeer PHONE policy sip fqdn ""
set addressContext default zone PSTN_ZONE ipPeer PHONE policy sip fqdnPort 0
set addressContext default zone PSTN_ZONE ipPeer PHONE2 ipAddress 115.110.x.x
set addressContext default zone PSTN_ZONE ipPeer PHONE2 ipPort 5060
set addressContext default zone PSTN_ZONE ipPeer PHONE2 policy description ""
set addressContext default zone PSTN_ZONE ipPeer PHONE2 policy sip fqdn ""
set addressContext default zone PSTN_ZONE ipPeer PHONE2 policy sip fqdnPort 0
commit

```

## Section B: NVS SBC Configuration

### 1. Global Configuration

#### 1.1 Codec Entry

Create a Codec Entry with the supported codec as follows:

```

set profiles media codecEntry G711U_20MS_2833 fax failureHandling continue
set profiles media codecEntry G711U_20MS_2833 fax toneTreatment faxRelay
set profiles media codecEntry G711U_20MS_2833 fax honorToneDetection disable
set profiles media codecEntry G711U_20MS_2833 modem failureHandling continue
set profiles media codecEntry G711U_20MS_2833 modem toneTreatment applyFaxTreatment
set profiles media codecEntry G711U_20MS_2833 modem honorToneDetection disable
set profiles media codecEntry G711U_20MS_2833 law ULaw
set profiles media codecEntry G711U_20MS_2833 dtmf relay rfc2833
set profiles media codecEntry G711U_20MS_2833 dtmf removeDigits enable
set profiles media codecEntry G729ab_20ms_2833_T38 codec g729ab
set profiles media codecEntry G729ab_20ms_2833_T38 packetSize 20
set profiles media codecEntry G729ab_20ms_2833_T38 preferredRtpPayloadType 128
set profiles media codecEntry G729ab_20ms_2833_T38 fax failureHandling continue
set profiles media codecEntry G729ab_20ms_2833_T38 fax toneTreatment faxRelayOrFallbackToG711
set profiles media codecEntry G729ab_20ms_2833_T38 modem failureHandling continue
set profiles media codecEntry G729ab_20ms_2833_T38 modem toneTreatment fallbackToG711
set profiles media codecEntry G729ab_20ms_2833_T38 dtmf relay rfc2833
set profiles media codecEntry G729ab_20ms_2833_T38 dtmf removeDigits enable
commit

```

#### 1.2 Path Check Profile

Create a Path Check Profile to attach to the Access side.

```

set profiles services pathCheckProfile ACCESS_SIRIS_OPTIONS protocol sipOptions
set profiles services pathCheckProfile ACCESS_SIRIS_OPTIONS sendInterval 20
set profiles services pathCheckProfile ACCESS_SIRIS_OPTIONS replyTimeoutCount 2
set profiles services pathCheckProfile ACCESS_SIRIS_OPTIONS recoveryCount 2
set addressContext default zone ACCESS_SIRIS_PSTN_ZONE ipPeer ACCESS_SIRIS_PSTN_PEER pathCheck profile
ACCESS_SIRIS_OPTIONS
set addressContext default zone ACCESS_SIRIS_PSTN_ZONE ipPeer ACCESS_SIRIS_PSTN_PEER pathCheck profile
ACCESS_SIRIS_OPTIONS state enabled
commit

```

#### 1.3 Packet Service Profile

Create a packet service profile as follows:



```

set profiles media packetServiceProfile SIRIS_PSTN_PSP
set profiles media packetServiceProfile SIRIS_PSTN_PSP codec codecEntry1 G711u_20ms_2833_T38
set profiles media packetServiceProfile SIRIS_PSTN_PSP codec codecEntry2 G729ab_20ms_2833_T38
set profiles media packetServiceProfile SIRIS_PSTN_PSP packetToPacketControl transcode conditional
set profiles media packetServiceProfile SIRIS_PSTN_PSP packetToPacketControl conditionsInAdditionToNoCommonCodec
differentDtmfRelay enable differentPacketSize enable differentSilenceSuppression enable
set profiles media packetServiceProfile SIRIS_PSTN_PSP packetToPacketControl codecsAllowedForTranscoding thisLeg
g711u,g729,t38
set profiles media packetServiceProfile SIRIS_PSTN_PSP silenceInsertionDescriptor g711SidRtpPayloadType 13
set profiles media packetServiceProfile SIRIS_PSTN_PSP typeOfService 184
commit

```

## 2. Access Leg Configuration

### 2.1 Zone

```

set addressContext default zone ACCESS_SIRIS_PSTN_ZONE id 502
commit

```



Zones that support SIP trunking do not specify the remoteDeviceType.

### 2.2 SIP Signaling Port

```

set addressContext default zone ACCESS_SIRIS_PSTN_ZONE sipSigPort 501 ipInterfaceGroup EXTERNAL_IPIG
set addressContext default zone ACCESS_SIRIS_PSTN_ZONE sipSigPort 501 ipAddressV4 198.17.x.x
set addressContext default zone ACCESS_SIRIS_PSTN_ZONE sipSigPort 501 dscpValue 26
set addressContext default zone ACCESS_SIRIS_PSTN_ZONE sipSigPort 501 state enabled mode inService
commit

```

### 2.3 IP Peer

```

set addressContext default zone ACCESS_SIRIS_PSTN_ZONE ipPeer ACCESS_SIRIS_PSTN_PEER ipAddress 115.110.x.x ipPort
5060

```

### 2.4 SIP Trunk Group

```

set addressContext default zone ACCESS_SIRIS_PSTN_ZONE sipTrunkGroup ACCESS_SIRIS_PSTN_TG media
mediaIpInterfaceGroupName EXTERNAL_IPIG
set addressContext default zone ACCESS_SIRIS_PSTN_ZONE sipTrunkGroup ACCESS_SIRIS_PSTN_TG ingressIpPrefix 115.110.
x.x 32
set addressContext default zone ACCESS_SIRIS_PSTN_ZONE sipTrunkGroup ACCESS_SIRIS_PSTN_TG policy signaling
ipSignalingProfile SIRIS_PSTN_IPSP
set addressContext default zone ACCESS_SIRIS_PSTN_ZONE sipTrunkGroup ACCESS_SIRIS_PSTN_TG policy media
packetServiceProfile SIRIS_PSTN_PSP
set addressContext default zone ACCESS_SIRIS_PSTN_ZONE sipTrunkGroup ACCESS_SIRIS_PSTN_TG state enabled mode
inService
commit

```

### 2.5 Routing Label

A routing label is attached with SIP Trunk Group and IP Peer attached. A routing lable towards Access side is as follows:

```
set global callRouting routingLabel ACCESS_SIRIS_PSTN_RL routePrioritizationType sequence action routes
routingLabelRoute 1 trunkGroup ACCESS_SIRIS_PSTN_TG ipPeer ACCESS_SIRIS_PSTN_PEER inService inService
commit
```

## 3. Core Leg Configuration

### 3.1 Zone

```
set addressContext default zone CORE_SIRIS_PSTN_ZONE id 504 remoteDeviceType appServer
commit
```

### 3.2 SIP Signaling Port

```
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipSigPort 502 ipInterfaceGroup INTERNAL_IPIG
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipSigPort 502 ipAddressV4 10.234.x.x
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipSigPort 502 dscpValue 26
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipSigPort 502 state enabled mode inService
commit
```

### 3.3 IP Peer

```
set addressContext default zone CORE_SIRIS_PSTN_ZONE ipPeer CORE_SIRIS_PSTN_PEER ipAddress 10.156.x.x
set addressContext default zone CORE_SIRIS_PSTN_ZONE ipPeer CORE_SIRIS_PSTN_PEER ipPort 5060
set addressContext default zone CORE_SIRIS_PSTN_ZONE ipPeer CORE_SIRIS_PSTN_PEER pathCheck profile A2_OPTIONS
set addressContext default zone CORE_SIRIS_PSTN_ZONE ipPeer CORE_SIRIS_PSTN_PEER pathCheck state enabled
commit
```

### 3.4 SIP Trunk Group

```
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG media
mediaIpInterfaceGroupName INTERNAL_IPIG
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy carrier 0000
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy country 1
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy localizationVariant
northAmerica
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy tgIPVersionPreference
both-ipv4-and-ipv6
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy preferredIdentity
disable
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy
digitParameterHandling numberingPlan ACCESS_NUM_PLAN
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy callRouting
elementRoutingPriority TG_ERP
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy media
packetServiceProfile CORE_PSP
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy services
classOfService DEFAULT_IP
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy signaling
ipSignalingProfile CORE_IPSP
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy signaling
signalingProfile DEFAULT_IP_PROFILE
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy featureControlProfile
DEFAULT_IP
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForSip enable
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy ingress flags
nonZeroVideoBandwidthBasedRoutingForH323 disable
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy ingress flags
hdPreferredRouting disable
```

```

set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG policy ingress flags
hdSupportedRouting disable
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling
messageManipulation inputAdapterProfile coreInputAdapter
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling
messageManipulation outputAdapterProfile coreOutputAdapter
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling retryCounters
general 4
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling retryCounters
invite 2
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling retryCounters bye 2
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling retryCounters
cancel 2
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling retryCounters
reInvite 2
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling timers
sessionKeepalive 0
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling timers
sessionMinSE 0
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling registration
insideExpiresMinimum 3500
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling registration
bulkRegisterFormat followIngress
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling rel100Support
enabled
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling
relayNonInviteRequest enabled
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling
condIncMethInAllowHdr enabled
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling
relayReplacesHeader enabled
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG signaling honorMaddrParam
enabled
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG services dnsSupportType a-
srv-naptr
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG services transparencyProfile
CORE_TP
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG media lateMediaSupport
passthru
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG media maxPtimeDefault 20
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG media sourceAddressFiltering
disabled
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG media mediaAddrType
matchSigAddrType
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG media
sdpAttributesSelectiveRelay enabled
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG ingressIpPrefix 10.156.x.x 32
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG state enabled
set addressContext default zone CORE_SIRIS_PSTN_ZONE sipTrunkGroup CORE_SIRIS_PSTN_TG mode inService
commit

```

### 3.5 Routing Label

A routing label is attached with the SIP Trunk Group and IP Peer. Routing label towards Core side is as follows:

```

set global callRouting routingLabel CORE_SIRIS_PSTN_RL routePrioritizationType sequence action routes
routingLabelRoute 1 trunkGroup CORE_SIRIS_PSTN_TG ipPeer CORE_SIRIS_PSTN_PEER inService inService
commit

```

## 4. Route Configuration

A route is required to send calls to the correct destination. In this scenario, trunk-based routing is used.

Route configuration towards ACCESS side.

```
set global callRouting route trunkGroup ACCESS_SIRIS_PSTN_TG CUL-NVS-SBC-1 standard Sonus_NULL Sonus_NULL all all
ALL none Sonus_NULL routingLabel CORE_SIRIS_PSTN_RL
commit

set global callRouting route trunkGroup ACCESS_SIRIS_PSTN_TG CUL-NVS-SBC-1 username Sonus_NULL Sonus_NULL all all
ALL none Sonus_NULL routingLabel CORE_SIRIS_PSTN_RL
commit
```

Route configuration towards CORE side.

```
set global callRouting route trunkGroup CORE_SIRIS_PSTN_TG CUL-NVS-SBC-1 standard Sonus_NULL Sonus_NULL all all
ALL none Sonus_NULL routingLabel ACCESS_SIRIS_PSTN_RL
commit

set global callRouting route trunkGroup CORE_SIRIS_PSTN_TG CUL-NVS-SBC-1 username Sonus_NULL Sonus_NULL all all
ALL none Sonus_NULL routingLabel ACCESS_SIRIS_PSTN_RL
commit
```

## Section C: Phone Configuration

This section provides a snapshot of the Polycom/ Yealink phone configurations used as per the test case during compliance testing. The screenshots and partial configuration shown below are for reference only; other configurations are also possible.

### 1. Generic Configuration

#### 1.1 Polycom Phone

The following sections show the generic configurations of Polycom phones.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!-- Application SIP Danube 5.4.0.10182 10-Sep-15 10:06 -->
<!-- Created 01-01-1970 00:02 -->
<PHONE_CONFIG>
  <ALL
    voIpProt.SIP.local.port="5060"
    voIpProt.SIP.outboundProxy.address="172.16.108.200"
    voIpProt.SIP.outboundProxy.port="5060"
    voIpProt.SIP.outboundProxy.transport="UDPOnly"
    reg.1.address="1912223390"
    reg.1.auth.loginCredentialType="usernameAndPassword"
    reg.1.auth.userId="3390"
    reg.1.auth.password="Kandy-1234@"
    reg.1.displayName="1912223390"
    reg.1.label="1912223390"
    reg.1.outboundProxy.address="172.16.108.200"
    reg.1.outboundProxy.port="5060"
    reg.1.outboundProxy.transport="UDPOnly"
    voIpProt.server.1.address="ibmtest.part"
    voIpProt.server.1.port="5060"
    voIpProt.server.1.transport="UDPOnly"
    xmpp.1.roster.invite.accept="automatic"
    reg.1.server.1.address="ibmtest.part"
    reg.1.server.1.port="5060"
    reg.1.server.1.transport="UDPOnly"
  />
</PHONE_CONFIG>
```

#### 1.2 Yealink Phone

Following is the snapshot of generic configurations of Yealink phones.

```

#!version:1.0.0.1

### This file is the exported MAC-all.cfg.

### For security, the following parameters with password haven't been display in this file.
###account.1.hoteling.password =
account.1.password = Kandy-1234@
###account.2.hoteling.password =
###static.auto_provision.server.password =
account.1.auth_name = 5520
account.1.blf.idle_state_on_sub_succ.enable = 1
account.1.cid_source_ppi = 1
account.1.codec.pcmu.priority = 1
account.1.codec.g726_32.payload_type = G726-32
account.1.codec.g726_32.rtpmap = 102
account.1.codec.g726_40.payload_type = G726-40
account.1.codec.g726_40.rtpmap = 105
account.1.codec.12.payload_type = GSM
account.1.codec.12.rtpmap = 3
account.1.codec.pcma.priority = 2
account.1.codec.g723_53.enable = 0
account.1.codec.g723_53.payload_type = G723_53
account.1.codec.g723_53.priority = 0
account.1.codec.g723_53.rtpmap = 4
account.1.codec.g723_63.enable = 0
account.1.codec.g723_63.payload_type = G723_63
account.1.codec.g723_63.priority = 0
account.1.codec.g723_63.rtpmap = 4
account.1.codec.g729.enable = 1
account.1.codec.g729.payload_type = G729
account.1.codec.g729.priority = 3
account.1.codec.g729.rtpmap = 18
account.1.codec.g722.enable = 1
account.1.codec.g722.payload_type = G722
account.1.codec.g722.priority = 4
account.1.codec.g722.rtpmap = 9
account.1.codec.ilbc.payload_type = iLBC
account.1.codec.ilbc.rtpmap = 106
account.1.codec.g726_16.payload_type = G726-16
account.1.codec.g726_16.rtpmap = 103
account.1.codec.g726_24.payload_type = G726-24
account.1.codec.g726_24.rtpmap = 104
account.1.conf_type = 2
account.1.conf_uri = conference@ibmtest.part
account.1.display_name = 12223335520
account.1.enable = 1
account.1.hoteling.user_id = 0
account.1.label = 5520
account.1.outbound_proxy.1.address = 172.16.108.200
account.1.outbound_proxy_enable = 1
account.1.picture_info_enable = 1
account.1.reason_code_name.1 = 0
account.1.register_mac = 1
account.1.sip_server.1.address = ibmtest.part
account.1.subscribe_mwi = 1
account.1.user_name = 5520
account.2.cid_source_ppi = 1
account.2.codec.pcmu.priority = 1
account.2.codec.g726_32.payload_type = G726-32
account.2.codec.g726_32.rtpmap = 102
account.2.codec.g726_40.payload_type = G726-40
account.2.codec.g726_40.rtpmap = 105
account.2.codec.12.payload_type = GSM
account.2.codec.12.rtpmap = 3
account.2.codec.pcma.priority = 2
account.2.codec.g723_53.enable = 0
account.2.codec.g723_53.payload_type = G723_53
account.2.codec.g723_53.priority = 0
account.2.codec.g723_53.rtpmap = 4
account.2.codec.g723_63.enable = 0
account.2.codec.g723_63.payload_type = G723_63
account.2.codec.g723_63.priority = 0

```

```

account.2.codec.g723_63.rtpmap = 4
account.2.codec.g729.enable = 1
account.2.codec.g729.payload_type = G729
account.2.codec.g729.priority = 3
account.2.codec.g729.rtpmap = 18
account.2.codec.g722.enable = 1
account.2.codec.g722.payload_type = G722
account.2.codec.g722.priority = 4
account.2.codec.g722.rtpmap = 9
account.2.codec.ilbc.payload_type = iLBC
account.2.codec.ilbc.rtpmap = 106
account.2.codec.g726_16.payload_type = G726-16
account.2.codec.g726_16.rtpmap = 103
account.2.codec.g726_24.payload_type = G726-24
account.2.codec.g726_24.rtpmap = 104
account.2.conf_type = 2
account.2.hoteling.user_id = 0
account.2.picture_info_enable = 1
account.2.reason_code_name.1 = 0
features.call_park.enable = 1
features.call_park.park_code = *32
features.call_park.park_mode = 1
features.voice_mail_tone_enable = 0
linekey.1.label = 5520
linekey.2.label = call park
linekey.2.line = 1
linekey.2.type = 13
linekey.2.value = *2611644444414
linekey.3.label = retrieve
linekey.3.line = 1
linekey.3.type = 10
linekey.3.value = 11644444414
local_time.time_format = 0
local_time.time_zone = -5
local_time.time_zone_name = United States-Eastern Time
sip.timer_t1 = 0.500000
transfer.dsskey_deal_type = 0
voice.handfree.spk_vol = 5
voice.ring_vol = 2
voice_mail.number.1 = voicemail
### Static Configuration ###
static.auto_provision.custom.protect = 1
static.auto_provision.server.url = http://gba2saas03.genband.com
static.auto_provision.server.username = c69ee98c8a0d8bfc05c2cfa8df5b553a
static.network.ip_address_mode = 2

```

## 2. SLA SCA Configuration

### 2.1 Polycom Phone

Please import the attached configuration (.cfg) files to Polycom phone, then reboot the phone. Public hold/retrieve should also work with the attached (.cfg) file.

#### Setup:

- Domain: ibmtest.part
- SLA group, name: sla-01, number: 12223335502

Primary Account: 5502@ibmtest.part

Secondary 1 Account: 5503@ibmtest.part

Secondary 2 Account: 5504@ibmtest.part

- A: 5502@ibmtest.part/DN: 12223335502 register on Polycom VVX 500
- B: 5503@ibmtest.part/DN: 12223335503 register on Polycom VVX 500
- C: 5504@ibmtest.part/DN: 12223335504 register on Polycom VVX 300
- D: 3302@ibmtest.part/DN: 1641113302 register on Polycom IP450

Polycom phone config file named "SLA\_Primary\_5502\_vvx500.cfg" would like this

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!-- Application SIP Finlay 5.6.0.18209 17-Oct-17 19:29 -->
<!-- Created 11-03-2019 04:00 -->
<PHONE_CONFIG>
  <!-- Note: The following parameters have been excluded from the export:
    device.auth.localAdminPassword=" "
    reg.1.auth.password=" "
  -->
  <ALL
    call.stickyAutoLineSeize="1"
    device.auth.localAdminPassword.set="1"
    device.baseProfile="Generic"
    device.baseProfile.set="1"
    device.prov.serverName.set="1"
    device.prov.ztpEnabled="0"
    device.prov.ztpEnabled.set="1"
    device.set="1"
    dialplan.digitmap=" "
    feature.enhancedFeatureKeys.enabled="1"
    lineKey.reassignment.enabled="1"
    np.normal.alert.messageWaiting.tonePattern="silent"
    se.stutterOnVoiceMail="0"
    sec.tagSerialNo="1"
    tcpIpApp.sntp.address="pool.ntp.org"
    tcpIpApp.sntp.gmtOffset="-18000"
    voIpProt.SIP.conference.address="conference@ibmtest.part"
    voIpProt.SIP.dialog.strictVersionValidation="0"
    voIpProt.SIP.outboundProxy.address="172.16.108.200"
    voIpProt.SIP.use486forReject="1"
    voIpProt.SIP.useRFC3264HoldOnly="1"
    efk.efklist.1.action.string="*26$P1N10$$Tinvite$"
    efk.efklist.2.action.string="*32$Tinvite$"
    efk.efklist.1.label="Park"
    efk.efklist.2.label="Retrieve"
    efk.efklist.1.mname="park1"
    efk.efklist.2.mname="retrievel"
    efk.efklist.1.status="1"
    efk.efklist.2.status="1"
    efk.efkprompt.1.label="DN:"
    efk.efkprompt.1.status="1"
    efk.efkprompt.1.type="numeric"
    lineKey.1.category="Line"
    lineKey.1.index="1"
    msg.mwi.1.callBack="voicemail"
    msg.mwi.1.callBackMode="contact"
    msg.mwi.1.subscribe="5502@ibmtest.part"
    reg.1.address="5502@ibmtest.part"
    reg.1.auth.loginCredentialType="usernameAndPassword"
    reg.1.auth.userId="5502"
    reg.1.bargeInEnabled="1"
    reg.1.callsPerLineKey="1"
    reg.1.displayName="12223335502"
    reg.1.gruu="1"
    reg.2.gruu="1"
    reg.3.gruu="1"
    reg.4.gruu="1"
    reg.5.gruu="1"
    reg.1.label="5502"
    reg.1.type="shared"
    softkey.1.action="!park1"
    softkey.2.action="!retrievel"
    softkey.1.enable="1"
    softkey.2.enable="1"
    softkey.1.label="Park"
    softkey.2.label="Retrieve"
    softkey.1.use.hold="1"
    softkey.2.use.idle="1"
    voIpProt.server.1.address="ibmtest.part"
    voIpProt.server.1.port="5060"
```

```

        voIpProt.server.1.specialInterop="GENBAND"
        voIpProt.SIP.alertInfo.1.class="autoAnswer"
        voIpProt.SIP.alertInfo.1.value="RingAnswer"
        reg.1.auth.password="Kandy-1234@"
    />
</PHONE_CONFIG>

```

Example Polycom phone config file named "SLA\_Secondary\_5503\_vvx500.cfg":

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!-- Application SIP Finlay 5.6.0.18209 17-Oct-17 19:29 -->
<!-- Created 11-03-2019 04:00 -->
<PHONE_CONFIG>
    <!-- Note: The following parameters have been excluded from the export:
        device.auth.localAdminPassword=""
        reg.1.auth.password=""
    -->
    <ALL
        call.stickyAutoLineSeize="1"
        device.auth.localAdminPassword.set="1"
        device.baseProfile="Generic"
        device.baseProfile.set="1"
        device.prov.serverName.set="1"
        device.prov.ztpEnabled="0"
        device.prov.ztpEnabled.set="1"
        device.set="1"
        dialplan.digitmap=""
        feature.enhancedFeatureKeys.enabled="1"
        lineKey.reassignment.enabled="1"
        np.normal.alert.messageWaiting.tonePattern="silent"
        se.stutterOnVoiceMail="0"
        sec.tagSerialNo="1"s
        tcpIpApp.sntp.address="pool.ntp.org"
        tcpIpApp.sntp.gmtOffset="-18000"
        voIpProt.SIP.conference.address="conference@ibmtest.part"
        voIpProt.SIP.dialog.strictVersionValidation="0"
        voIpProt.SIP.outboundProxy.address="172.16.108.200"
        voIpProt.SIP.use486forReject="1"
        voIpProt.SIP.useRFC3264HoldOnly="1"
        efk.efklist.1.action.string="*26$P1N10$$Tinvite$"
        efk.efklist.2.action.string="*32$Tinvite$"
        efk.efklist.1.label="Park"
        efk.efklist.2.label="Retrieve"
        efk.efklist.1.mname="park1"
        efk.efklist.2.mname="retrieve1"
        efk.efklist.1.status="1"
        efk.efklist.2.status="1"
        efk.efkprompt.1.label="DN:"
        efk.efkprompt.1.status="1"
        efk.efkprompt.1.type="numeric"
        lineKey.1.category="Line"
        lineKey.1.index="1"
        msg.mwi.1.callBack="voicemail"
        msg.mwi.1.callBackMode="contact"
        msg.mwi.1.subscribe="5503@ibmtest.part"
        reg.1.address="5503@ibmtest.part"
        reg.1.auth.loginCredentialType="usernameAndPassword"
        reg.1.auth.userId="5503"
        reg.1.bargeInEnabled="1"
        reg.1.callsPerLineKey="1"
        reg.1.displayName="12223335503"
        reg.1.gruu="1"
        reg.2.gruu="1"
        reg.3.gruu="1"
        reg.4.gruu="1"
        reg.5.gruu="1"
        reg.1.label="5503"
        reg.1.type="shared"
        softkey.1.action="!park1"
        softkey.2.action="!retrieve1"
        softkey.1.enable="1"
    </ALL>
</PHONE_CONFIG>

```



```

        softkey.2.enable="1"
        softkey.1.label="Park"
        softkey.2.label="Retrieve"
        softkey.1.use.hold="1"
        softkey.2.use.idle="1"
        voIpProt.server.1.address="ibmtest.part"
        voIpProt.server.1.port="5060"
        voIpProt.server.1.specialInterop="GENBAND"
        voIpProt.SIP.alertInfo.1.class="autoAnswer"
        voIpProt.SIP.alertInfo.1.value="RingAnswer"
        reg.1.auth.password="Kandy-1234@"
    />
</PHONE_CONFIG>

```

Example Polycom phone config file named "SLA\_Secondary\_5504\_vvx300.cfg":

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!-- Application SIP Finlay 5.6.0.18209 17-Oct-17 19:29 -->
<!-- Created 11-03-2019 04:00 -->
<PHONE_CONFIG>
    <!-- Note: The following parameters have been excluded from the export:
        device.auth.localAdminPassword=""
        reg.1.auth.password=""
    -->
    <ALL
        call.stickyAutoLineSeize="1"
        device.auth.localAdminPassword.set="1"
        device.baseProfile="Generic"
        device.baseProfile.set="1"
        device.prov.serverName.set="1"
        device.prov.ztpEnabled="0"
        device.prov.ztpEnabled.set="1"
        device.set="1"
        dialplan.digitmap=""
        feature.enhancedFeatureKeys.enabled="1"
        lineKey.reassignment.enabled="1"
        np.normal.alert.messageWaiting.tonePattern="silent"
        se.stutterOnVoiceMail="0"
        sec.tagSerialNo="1"
        tcpIpApp.snmp.address="pool.ntp.org"
        tcpIpApp.snmp.gmtOffset="-18000"
        voIpProt.SIP.conference.address="conference@ibmtest.part"
        voIpProt.SIP.dialog.strictVersionValidation="0"
        voIpProt.SIP.outboundProxy.address="172.16.108.200"
        voIpProt.SIP.use486forReject="1"
        voIpProt.SIP.useRFC3264HoldOnly="1"
        efk.efklist.1.action.string="*26$P1N10$$Tinvite$"
        efk.efklist.2.action.string="*32$Tinvite$"
        efk.efklist.1.label="Park"
        efk.efklist.2.label="Retrieve"
        efk.efklist.1.mname="park1"
        efk.efklist.2.mname="retrieve1"
        efk.efklist.1.status="1"
        efk.efklist.2.status="1"
        efk.efkprompt.1.label="DN:"
        efk.efkprompt.1.status="1"
        efk.efkprompt.1.type="numeric"
        lineKey.1.category="Line"
        lineKey.1.index="1"
        msg.mwi.1.callBack="voicemail"
        msg.mwi.1.callBackMode="contact"
        msg.mwi.1.subscribe="5504@ibmtest.part"
        reg.1.address="5504@ibmtest.part"
        reg.1.auth.loginCredentialType="usernameAndPassword"
        reg.1.auth.userId="5504"
        reg.1.bargeInEnabled="1"
        reg.1.callsPerLineKey="1"
        reg.1.displayName="12223335504"
        reg.1.gruu="1"
        reg.2.gruu="1"
        reg.3.gruu="1"
    </ALL>
</PHONE_CONFIG>

```

```

        reg.4.gruu="1"
        reg.5.gruu="1"
        reg.1.label="5504"
        reg.1.type="shared"
        softkey.1.action="!park1"
        softkey.2.action="!retrieve1"
        softkey.1.enable="1"
        softkey.2.enable="1"
        softkey.1.label="Park"
        softkey.2.label="Retrieve"
        softkey.1.use.hold="1"
        softkey.2.use.idle="1"
        voIpProt.server.1.address="ibmtest.part"
        voIpProt.server.1.port="5060"
        voIpProt.server.1.specialInterop="GENBAND"
        voIpProt.SIP.alertInfo.1.class="autoAnswer"
        voIpProt.SIP.alertInfo.1.value="RingAnswer"
        reg.1.auth.password="Kandy-1234@"

    />
</PHONE_CONFIG>

```

## 3. Presence Configuration

### 3.1 Polycom Phone

To view the current status of other users, add them to the Directory on the Polycom phone (Manually) along with "Watch Buddy: Enabled".

Then, add these parameters to the configuration file:

```

feature.enhancedFeatureKeys.enabled="1"
feature.presence.enabled="1"
feature.directedCallPickup.enabled="1"
voIpProt.SIP.presence.nortelShortMode="1"

```

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<PHONE_CONFIG>
    <ALL
        feature.directedCallPickup.enabled="1"
        feature.enhancedFeatureKeys.enabled="1"
        feature.presence.enabled="1"
        np.normal.ringing.toneVolume.chassis="0"
        voIpProt.SIP.local.port="5060"
        voIpProt.SIP.outboundProxy.address="172.16.108.200"
        voIpProt.SIP.outboundProxy.port="5060"
        voIpProt.SIP.outboundProxy.transport="UDPOnly"
        voIpProt.SIP.presence.nortelShortMode="1"
        reg.1.address="5561@ibmtest.part"
        reg.1.auth.loginCredentialType="usernameAndPassword"
        reg.1.auth.userId="5561"
        reg.1.auth.password="Kandy-1234@"
        reg.1.displayName="12223335561"
        reg.1.label="12223335561"
        reg.1.outboundProxy.address="172.16.108.200"
        reg.1.outboundProxy.port="5060"
        reg.1.outboundProxy.transport="UDPOnly"
        voIpProt.server.1.address="ibmtest.part"
        voIpProt.server.1.port="5060"
        voIpProt.server.1.transport="UDPOnly"
        xmpp.1.roster.invite.accept="automatic"
        reg.1.server.1.address="ibmtest.part"
        reg.1.server.1.port="5060"
        reg.1.server.1.transport="UDPOnly"

    />
</PHONE_CONFIG>

```

- Additionally, navigate to EUP -> Service tab-> Voice Services and enable the following:  
On the Phone Presence: enabled  
Report when inactive: enabled

## 4. Parking Lot Configuration

### 4.1 Polycom Phone

Import the configuration files to the Polycom phones named "VVX500\_callpark\_3308.cfg"

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!-- Application SIP Fraser 5.7.0.11768 08-Dec-17 06:55 -->
<!-- Created 17-01-2019 04:44 -->
<!-- Base profile Generic -->
<PHONE_CONFIG>
  <!-- Note: The following parameters have been excluded from the export:
    device.auth.localAdminPassword=" "
    reg.1.auth.password=" "
  -->
  <ALL
    call.stickyAutoLineSeize="1"
    device.auth.localAdminPassword.set="1"
    device.baseProfile="Generic"
    device.baseProfile.set="1"
    device.prov.serverName.set="1"
    device.prov.ztpEnabled="0"
    device.prov.ztpEnabled.set="1"
    device.set="1"
    dir.local.serverFeatureControl.method="GENBANDSOPI"
    feature.enhancedFeatureKeys.enabled="1"
    lineKey.reassignment.enabled="1"
    np.normal.alert.messageWaiting.tonePattern="silent"
    se.stutterOnVoiceMail="0"
    sec.tagSerialNo="1"
    sec.TLS.SOPI.strictCertCommonNameValidation="0"
    tcpIpApp.snmp.address="pool.ntp.org"
    tcpIpApp.snmp.gmtOffset="-18000"
    voIpProt.SIP.conference.address="conference@ibmtest.part"
    voIpProt.SIP.use486forReject="1"
    attendant.resourceList.1.address="parkinglot1"
    attendant.resourceList.1.callAddress="*3211644444414"
    attendant.resourceList.1.label="retrieve1"
    attendant.resourceList.1.type="normal"
    efk.efklist.1.action.string="*2611644444414$Tinvite$"
    efk.efklist.2.action.string="*32$Tinvite$"
    efk.efklist.1.label="Park1"
    efk.efklist.2.label="Retrieve"
    efk.efklist.1.mname="sd21@a.com"
    efk.efklist.2.mname="retrieve1"
    efk.efklist.1.status="1"
    efk.efklist.2.status="1"
    efk.efkprompt.1.label="DN: "
    efk.efkprompt.1.status="1"
    efk.efkprompt.1.type="numeric"
    lineKey.1.category="Line"
    lineKey.2.category="SpeedDial"
    lineKey.3.category="BLF"
    lineKey.1.index="1"
    lineKey.2.index="21"
    msg.mwi.1.callBack="voicemail"
    msg.mwi.1.callBackMode="contact"
    msg.mwi.1.subscribe="3308@ibmtest.part"
    reg.1.address="3308@ibmtest.part"
    reg.1.auth.userId="3308"
    reg.1.displayName="164111224411"
    reg.1.gruu="1"
    reg.2.gruu="1"
    reg.3.gruu="1"
    reg.4.gruu="1"
    reg.5.gruu="1"
```

```

        reg.1.label="3308"
        reg.1.outboundProxy.address="172.16.108.200"
        reg.1.outboundProxy.port="5060"
        reg.1.outboundProxy.transport="UDPOnly"
        softkey.1.action="!park1"
        softkey.2.action="!retrieve1"
        softkey.1.enable="1"
        softkey.2.enable="1"
        softkey.1.label="Park"
        softkey.2.label="Retrieve"
        softkey.1.use.hold="1"
        softkey.2.use.idle="1"
        voIpProt.server.1.address="ibmtest.part"
        voIpProt.server.1.port="5060"
        voIpProt.SIP.alertInfo.1.class="autoAnswer"
        voIpProt.SIP.alertInfo.1.value="RingAnswer"
        reg.1.auth.password="Kandy-1234@"

    />
</PHONE_CONFIG>

```

## 4.2 Yealink Phone

Import the configuration files to Yealink phones named "Yealink\_5520\_callpark.cfg"

```

#!version:1.0.0.1

### This file is the exported MAC-all.cfg.

### For security, the following parameters with password haven't been display in this file.
###account.1.hoteling.password =
account.1.password = Kandy-1234@
###account.2.hoteling.password =
###static.auto_provision.server.password =
account.1.auth_name = 5520
account.1.blf.idle_state_on_sub_succ.enable = 1
account.1.cid_source_ppi = 1
account.1.codec.pcmu.priority = 1
account.1.codec.g726_32.payload_type = G726-32
account.1.codec.g726_32.rtpmap = 102
account.1.codec.g726_40.payload_type = G726-40
account.1.codec.g726_40.rtpmap = 105
account.1.codec.12.payload_type = GSM
account.1.codec.12.rtpmap = 3
account.1.codec.pcma.priority = 2
account.1.codec.g723_53.enable = 0
account.1.codec.g723_53.payload_type = G723_53
account.1.codec.g723_53.priority = 0
account.1.codec.g723_53.rtpmap = 4
account.1.codec.g723_63.enable = 0
account.1.codec.g723_63.payload_type = G723_63
account.1.codec.g723_63.priority = 0
account.1.codec.g723_63.rtpmap = 4
account.1.codec.g729.enable = 1
account.1.codec.g729.payload_type = G729
account.1.codec.g729.priority = 3
account.1.codec.g729.rtpmap = 18
account.1.codec.g722.enable = 1
account.1.codec.g722.payload_type = G722
account.1.codec.g722.priority = 4
account.1.codec.g722.rtpmap = 9
account.1.codec.ilbc.payload_type = iLBC
account.1.codec.ilbc.rtpmap = 106
account.1.codec.g726_16.payload_type = G726-16
account.1.codec.g726_16.rtpmap = 103
account.1.codec.g726_24.payload_type = G726-24
account.1.codec.g726_24.rtpmap = 104
account.1.conf_type = 2
account.1.conf_uri = conference@ibmtest.part
account.1.display_name = 12223335520
account.1.enable = 1

```

```

account.1.hoteling.user_id = 0
account.1.label = 5520
account.1.outbound_proxy.1.address = 172.16.108.200
account.1.outbound_proxy_enable = 1
account.1.picture_info_enable = 1
account.1.reason_code_name.1 = 0
account.1.register_mac = 1
account.1.sip_server.1.address = ibmtest.part
account.1.subscribe_mwi = 1
account.1.user_name = 5520
account.2.cid_source_ppi = 1
account.2.codec.pcmu.priority = 1
account.2.codec.g726_32.payload_type = G726-32
account.2.codec.g726_32.rtpmap = 102
account.2.codec.g726_40.payload_type = G726-40
account.2.codec.g726_40.rtpmap = 105
account.2.codec.12.payload_type = GSM
account.2.codec.12.rtpmap = 3
account.2.codec.pcma.priority = 2
account.2.codec.g723_53.enable = 0
account.2.codec.g723_53.payload_type = G723_53
account.2.codec.g723_53.priority = 0
account.2.codec.g723_53.rtpmap = 4
account.2.codec.g723_63.enable = 0
account.2.codec.g723_63.payload_type = G723_63
account.2.codec.g723_63.priority = 0
account.2.codec.g723_63.rtpmap = 4
account.2.codec.g729.enable = 1
account.2.codec.g729.payload_type = G729
account.2.codec.g729.priority = 3
account.2.codec.g729.rtpmap = 18
account.2.codec.g722.enable = 1
account.2.codec.g722.payload_type = G722
account.2.codec.g722.priority = 4
account.2.codec.g722.rtpmap = 9
account.2.codec.ilbc.payload_type = iLBC
account.2.codec.ilbc.rtpmap = 106
account.2.codec.g726_16.payload_type = G726-16
account.2.codec.g726_16.rtpmap = 103
account.2.codec.g726_24.payload_type = G726-24
account.2.codec.g726_24.rtpmap = 104
account.2.conf_type = 2
account.2.hoteling.user_id = 0
account.2.picture_info_enable = 1
account.2.reason_code_name.1 = 0
features.call_park.enable = 1
features.call_park.park_code = *32
features.call_park.park_mode = 1
features.voice_mail_tone_enable = 0
linekey.1.label = 5520
linekey.2.label = call park
linekey.2.line = 1
linekey.2.type = 13
linekey.2.value = *2611644444414
linekey.3.label = retrieve
linekey.3.line = 1
linekey.3.type = 10
linekey.3.value = 11644444414
local_time.time_format = 0
local_time.time_zone = -5
local_time.time_zone_name = United States-Eastern Time
sip.timer_t1 = 0.500000
transfer.dsskey_deal_type = 0
voice.handfree.spk_vol = 5
voice.ring_vol = 2
voice_mail.number.1 = voicemail
### Static Configuration ###
static.auto_provision.custom.protect = 1
static.auto_provision.server.url = http://gba2saas03.genband.com
static.auto_provision.server.username = c69ee98c8a0d8bfc05c2cfa8df5b553a
static.network.ip_address_mode = 2

```

## Supplementary Services & Features Coverage

The following checklist shows the set of services/features covered through the configuration defined in this Interop Guide.

Sr.No.	Supplementary Features/Services	Coverage
1	Basic Registration over UDP & TCP	✓
2	Registration over TLS	N/A
3	Basic Call Setup	✓
4	Basic Call Termination	✓
5	Ringling & Local Ringback Tone	✓
6	Remote Ringback Tone	✗
7	Call Abandon(Cancel Call)	✓
8	Call Rejection	✓
9	Auto Attendant	✓
10	SLA/SCA - Shared Line/Call Appearance	✓
11	Call Forward Unconditional	✓
12	Call Forward No Answer	✓
13	Call Transfer - Blind	✓
14	Call Transfer - Consult	✓
15	Call Park	✓
16	Adhoc Conference	✓
17	Sequential Ringing	✓
18	Simultaneous Ringing	✓

### Legend

✓	Supported
✗	Not Supported
N/A	Not Applicable

## Support

For any support related queries about this guide, please contact your local Ribbon representative, or use the details below:

- Sales and Support: 1-833-742-2661
- Other Queries: 1-877-412-8867
- Website: <https://ribboncommunications.com/about-us>

## References

For detailed information about Ribbon products & solutions, please visit:

<https://ribboncommunications.com/products>

For detailed information about KBS products & solutions, please visit:

## Conclusion

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This Interoperability Guide describes a successful configuration covering Back to Back SBC Core Interoperability with Kandy Business Solution. All the necessary features and serviceability aspects stand covered as per the details provided in this interoperability document.

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