

Reference Configuration

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 Related articles:

- [Configuring IP Interface Groups and Interfaces](#)
- [Call Routing: System Provisioning - Routing](#)
- [Creating an IP Plan](#)
- [SBC Core Installation and Upgrade Guide](#)
- [SBC SIP Transparency Implementation Guide](#)

Info

The Transparency Profile is the recommended method of configuring transparency on the SBC Core for new deployments as well as when applying additional transparency configurations to existing deployments. Do not use IPSP flags in these scenarios because the flags will be retired in upcoming releases.

Refer to the [SBC SIP Transparency Implementation Guide](#) for additional information.

Info

The SBC 52x0 and SBC 7000 systems support creating IP Interface Groups containing sets of IP interfaces that are not "processor friendly" (i.e. carried on physical Ethernet ports served by separate processors). However, restrictions exist regarding the usage of such Interface Groups.

(This ability does not apply to the SBC 51x0 and SBC 5400 systems which have only two physical media ports. IP interfaces from the two physical ports may be configured within the same IP Interface Groups without restriction.)

For complete details, refer to [Configuring IP Interface Groups and Interfaces](#).

The configuration discussed in this section has been tested in the Sonus Networks lab. The goal is to show a simple working configuration that can be used as a basis for SBC Core user customization.

High Level Simple Configuration

Trunk group routing will be used to send all traffic that arrives on "Outside" trunk to "Inside" trunk, and vice versa. This allows for no additional configuration changes on the SBC as the operator adds more numbers to be routed.

This configuration will support G.729A on the "Outside" with G.711 on the "Inside" so transcoding will occur.

A single Address Context will be configured, so no overlapping IP address will be used.

Both "Outside" and "Inside" specific configuration data must be made. Below is a summary of the key configuration items.

Table 1: Key Configuration Items

Configuration Item	"Outside": PEER	"Inside": CORE
Zone	SIP Port and Trunk Group reside in Zone	SIP Port and Trunk Group reside in Zone
SIP Signaling Port	Public IP address on the SBC that far end will send messages to.	Private IP address on the SBC that the feature server will send messages to
Packet Service Profile	Specify G.729A	Specify G.711
IP Signaling Profile	SIP Parameter settings	SIP Parameter settings
Trunk Group	Includes IP of where messages will arrive from. If far ends are registering devices (phones), use 0.0.0.0 for ingress IP Prefix.	Includes IP of where messages will arrive from. Will be the feature server SIP port IP address.
Signaling Peer	IP address of far end	IP address of feature server
Routing Label	One per trunk group	One per trunk group
Route	One per trunk group	One per trunk group

Configuration Details

Please use default values except as noted. For this example the Address Context "default" is used, since there is no over-lapped IP addressing.

The term "operator" is used to mean the Carrier, Service Provider, or Enterprise that owns the SBC.

To get into configuration mode from the CLI:

```
admin@DFWNBS01a> configure
Entering configuration mode private
```

Zones

Create four new zones, each one representing an external customer or operator equipment.

- Two are used for the Trunking configuration
- Two are used for the Access configuration.

As additional customer (non-operator) far ends are added, they can be put into a new zone. For additional operator equipment, you may use a new zone or re-use the existing one.

Table 2: Zone Usage

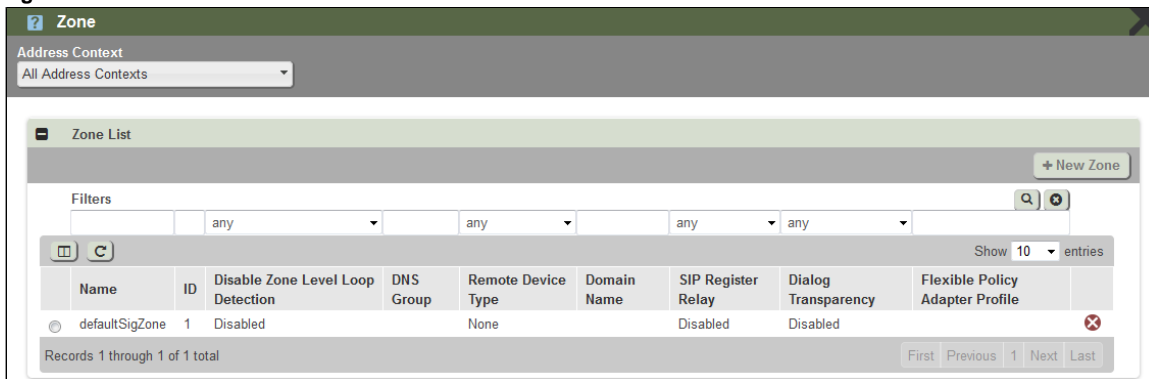
Zone	Configuration Usage	Purpose
peer	Trunking	Traffic to/from far end carrier
core	Trunking	Traffic to/from operator trunking equipment
phones	Access	Traffic to/from phones
accesscore	Access	Traffic to/from operator feature server

Example of Using Zone Types in CLI

```
% set addressContext default zone peer id 2
% set addressContext default zone core id 3
% set addressContext default zone core id 3
% set addressContext default zone accesscore id
```

On the SBC main screen, navigate to **Configuration > System Provisioning > Category: Base Provisioning > Zone**.

Figure 1: Zone



SIP Signaling Ports

The SIP Signaling Ports live on (the IP addresses are owned by) the SBC. These are the IP addresses that external (non-SBC equipment) send SIP traffic to and receive SIP traffic from. For this example four new SIP Ports are created (two for Trunking and two for Access). The term "operator" is used to mean the Carrier, Service Provider, or Enterprise that owns the SBC.

Table 3: SIP Port Usage

SIP Port #/ Zone	Configuration Usage	Purpose
1 / peer	Trunking	Traffic to/from far end carrier
2 / core	Trunking	Traffic to/from operator trunking equipment
3 / phones	Access	Traffic to/from phones
4 / accesscore	Access	Traffic to/from operator feature server

In the configuration examples, each SIP Signaling port is in a unique Zone. The non-SBC equipment (phones, operator feature server, other Carriers, operator trunking server) sends/receives SIP messages to/from the IP addresses and port configured. The default protocol allowed is UDP and port is 5060.



Caution

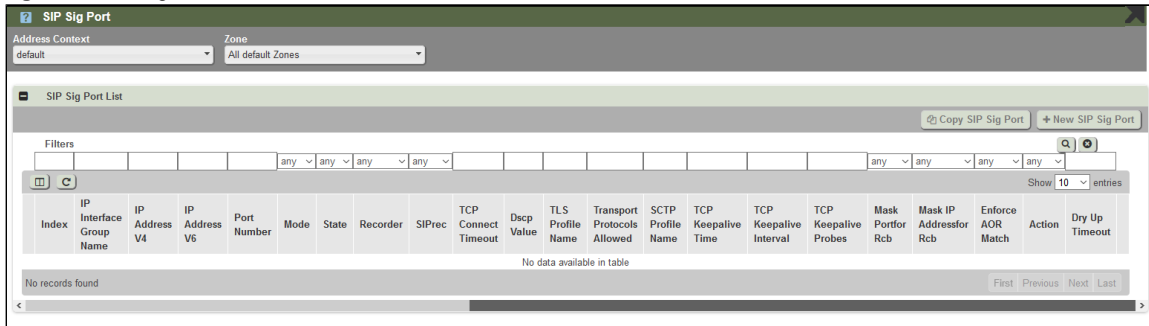
When a SIP Port is created (IP address is assigned), the system also creates an ACL that allows connection attempts to all ports on the IP address. This means that someone could attempt to SSH to the IP address of the SIP Port. To prevent unwanted access attempts,

you should manually create ACLs that specify what is allowed and what is not. See the ACL section of this document for details.

```
% set addressContext default zone peer id 2 sipSigPort 1 ipInterfaceGroupName EXTERNAL_IPIG
ipAddressV4 10.35.66.189 state enabled
% set addressContext default zone core id 3 sipSigPort 2 ipInterfaceGroupName INTERNAL_IPIG
ipAddressV4 192.168.75.10 state enabled
% set addressContext default zone phones id 4 sipSigPort 3 ipAddressV4 10.35.66.143 portNumber 5060
transportProtocolsAllowed sip-udp ipInterfaceGroupName EXTERNAL_IPIG
% set addressContext default zone accesscore id 5 sipSigPort 4 ipAddressV4 10.35.66.179 portNumber
5060 transportProtocolsAllowed sip-udp ipInterfaceGroupName EXTERNAL_IPIG
```

On the SBC main screen, navigate to **Configuration > System Provisioning > Category: Base Provisioning > Signaling Ports > Sip Sig Port**.

Figure 2: SIP Sig Port



Packet Service Profile (PSP)

Packet Service Profiles control the media settings such as Codec, Packet Size, Transcoding options, and fax support on a trunk group. For example you can specify that only G.729A codec is allowed to the PHONES trunk group, while G.729A and G.711 are allowed to the ACCESSCORE trunk group. Each PSP can contain up to four Codec entries when using ERE. These Codec entries describe a codec, its packet size, and its law (A or U). Several default Codec entries are pre-configured on the system, and you can use these as an example to create your own.

! The PSX supports configuring up to 12 codecs in the Packet Service Profile and Preferred Packet Service Profile. The SBC supports receiving all 12 codecs from the PSX in the PSP and Preferred PSP. This applies to interworking with an external PSX (Advanced ERE deployment scenario). See [Routing and Policy Management](#) for deployment scenario details.

Additionally, the SBC supports up to 12 codecs over Gateway links to SBCs and/or GSXs.

! An SBC-POL-RTU license is needed to enable more than four codecs.

If you do not wish to use the default Codec Entries you will need to create custom Codec Entries before you can create Packet Service Profiles, since the PSP reference the Codec Entries. For example, you may want to have a PSP that specifies 20ms packet size, RFC2833 transport, allows for G.729A codec, and allows transcoding of G.711 to G.729A.

In our example two, Packet Service Profiles are created. You should create new PSPs based on the default one, instead of modifying the default one. And they should be named in such a way so that you can identify what their function is.

On the SBC main screen, go to **Configuration > System Provisioning > Category: Trunk Provisioning > Packet Service Profile**. The **Packet Service Profile** window is displayed.

Figure 3: Packet Service Profile

Name	Silence Factor	Type Of Service	Voice Initial Playout Buffer Delay	Peer Absence Action	Aal1Payload Size	Preferred Rtp Payload Type For DTMF Relay	Media Packet Cos	Honor Remote Precedence	Send Route PSPPrecedence
○ DEFAULT	40	0	10	None	47	128	0	Disable	Disable

Codec Entry

The Codec Entry describes one specific codec that can be offered as part of the Packet Service Profile. Several default Codec Entries are included with the SBC. It is recommended to name the Codec Entry in a descriptive manner, so it is easy to select during the Packet Service Profile creation or modification.

Some of the key fields of the Codec Entry include:

- Codec – the actual codec to be used
- Packet Size – the size of each RTP voice packet, in milliseconds.
- Law – Alaw, Ulaw, derived from other leg
- DTMF Relay method – should RFC2833 be used, in-band or out of band

Example 1:

Create G711u_20ms_2833_T38 entry for internal side that uses 20 ms and 2833 only.

```
% set profiles media codecEntry G711u_20ms_2833_T38 codec g711 packetSize 20 law ULaw
% set profiles media codecEntry G711u_20ms_2833_T38 dtmf relay rfc2833 removeDigits enable
% set profiles media codecEntry G711u_20ms_2833_T38 fax toneTreatment faxRelayOrFallbackToG711
% set profiles media codecEntry G711u_20ms_2833_T38 modem toneTreatment fallbackToG711
% set profiles media codecEntry G711a_20ms_2833_T38 codec g711 packetSize 20 law ALaw
% set profiles media codecEntry G711a_20ms_2833_T38 dtmf relay rfc2833 removeDigits enable
% set profiles media codecEntry G711a_20ms_2833_T38 fax toneTreatment faxRelayOrFallbackToG711
% set profiles media codecEntry G711a_20ms_2833_T38 modem toneTreatment fallbackToG711
```

Example 2:

Create G711u_40ms_2833_T38, G711a_40ms_2833_T38, and G729ab_40ms_2833_T38 entries for public facing side, G.711u, G.711a and G.729A, all using RFC2833 and 40ms packet size.

G.711U 40ms_2833_T38:

```
% set profiles media codecEntry G711u_40ms_2833_T38 codec g711 packetSize 40 law ULaw
% set profiles media codecEntry G711u_40ms_2833_T38 dtmf relay rfc2833 removeDigits enable
% set profiles media codecEntry G711u_40ms_2833_T38 fax toneTreatment faxRelayOrFallbackToG711
% set profiles media codecEntry G711u_40ms_2833_T38 modem toneTreatment fallbackToG711
% set profiles media codecEntry G711a_40ms_2833_T38 codec g711 packetSize 40 law ALaw
```

G.711a 40ms_2833_T38:

```
% set profiles media codecEntry G711a_40ms_2833_T38 dtmf relay rfc2833 removeDigits enable
% set profiles media codecEntry G711a_40ms_2833_T38 fax toneTreatment faxRelayOrFallbackToG711
% set profiles media codecEntry G711a_40ms_2833_T38 modem toneTreatment fallbackToG711
```

G.729ab 40ms_2833_T38:

The IP Signaling Profile "DEFAULT_SIP" is available to use. If you do not wish to use the default one as is, it is recommended to create a new one and leave the DEFAULT_SIP unchanged. You should use the default values for the IP Signaling profile, except for Access configurations, do the following:

1. Turn on all Common IP Attributes: Relay flags (to allow all messages to pass through SBC).
2. Turn on all Common IP Attributes: Transparency for headers.
3. Turn on Egress IP Attribute: Transparency

Trunk Groups

An important concept on the SBC is that all signaling and routing is based upon Trunk Groups. Even in Access configurations, a set of endpoints is represented by a trunk group. It is convention that the trunk group names are CAPITALIZED.

For the example configuration, four trunk groups are created. Two are created for the "SIP Trunking" configuration and two for the "Access" configuration.

Table 4: Trunk Group Usage

Trunk Group Name	Configuration Usage	Purpose
CORE	Trunking	Trunk to operator network equipment (carrier that owns the SBC)
PEER	Trunking	Trunk to far end (another carrier or PBX for example)
PHONES	Access	Trunk to the set of phones
ACCESSCORE	Access	Trunk to the operator (owner the SBC) feature server (Sonus ASX, PBX, etc.)

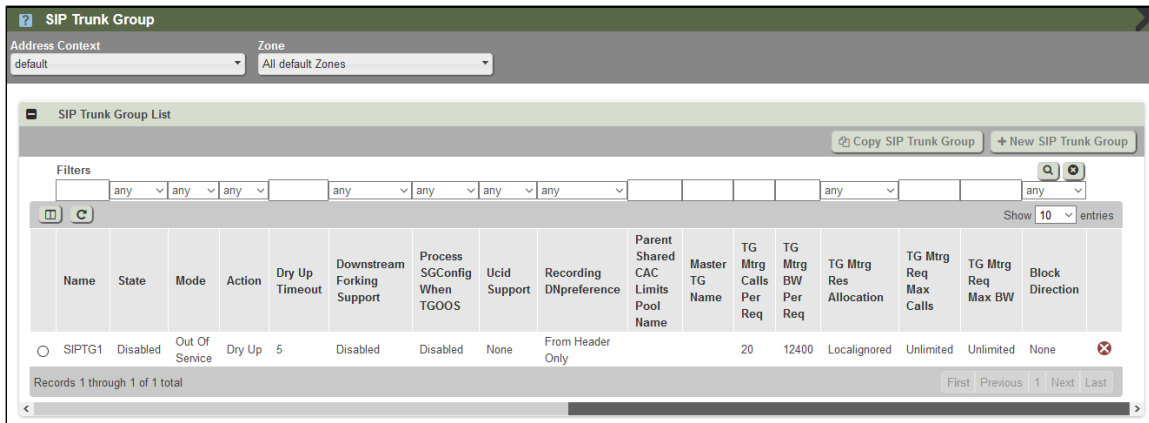
```

% set addressContext default zone core sipTrunkGroup CORE ingressIpPrefix 192.168.75.5 32
% set addressContext default zone core sipTrunkGroup CORE media mediaIpInterfaceGroupName IPIG1
% set profiles signaling ipSignalingProfile CORE_IPSP egressIpAttributes numberGlobalizationProfile NO_GLOBAL_IP
% set profiles signaling ipSignalingProfile CORE_IPSP commonIpAttributes relayFlags thirdPartyBodies enable
% set profiles signaling ipSignalingProfile CORE_IPSP commonIpAttributes transparencyFlags unknownBody enable unknownHeader enable
% set addressContext default zone core sipTrunkGroup CORE policy signaling ipSignalingProfile CORE_IPSP
% set profiles media packetServiceProfile CORE_PSP codec codecEntry1 G711-EITHER_OOB-2833 codecEntry2 G729AEITHER_OOB-2833 codecEntry3 G729AB-EITHER_OOB-2833
% set profiles media packetServiceProfile CORE_PSP packetToPacketControl codecsAllowedForTranscoding thisLeg g711a,g711u,g729,t38
% set profiles media packetServiceProfile CORE_PSP packetToPacketControl codecsAllowedForTranscoding otherLeg g711a,g711u,g729,t38
% set addressContext default zone core sipTrunkGroup CORE policy media packetServiceProfile CORE_PSP
% set addressContext default zone core sipTrunkGroup CORE state enabled mode inService

```

On the SBC main screen, go to **Configuration > System Provisioning > Category: Trunk Provisioning > Trunk Group > Sip Trunk Group**. The **Sip Trunk Group** window is displayed.

Figure 5: SIP Trunk Group



IP Peer

The IP Peer is the IP address of the far end device. The IP Peer is referenced in the Routing Label, and is used for outgoing calls for a particular Trunk Group.

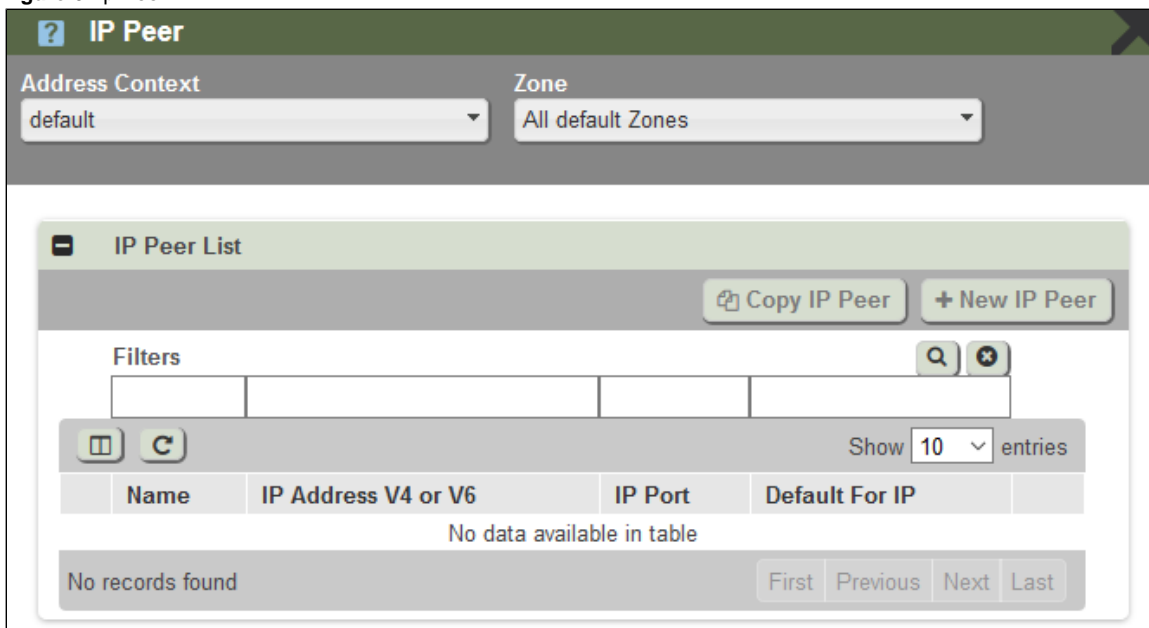
! If you define an IP Signaling Profile in the IP Peer (policy sub section), it will overwrite the one defined in the trunk group.

For Access configurations, it is not necessary to have an IP Signaling Peer to the individual phones. You do need one to the feature server.

```
% set addressContext default zone core ipPeer core_peer ipAddress 192.168.75.5 ipPort 5060
% set addressContext default zone peer ipPeer peer_peer ipAddress 10.35.66.187 ipPort 5060
% set addressContext default zone accesscore ipPeer accesscore_peer ipAddress 10.35.66.140 ipPort 5620
```

On the SBC main screen, navigate to **Configuration > System Provisioning > Category: Trunk Provisioning > Ip Peer**. The **Ip Peer** window is displayed.

Figure 6: Ip Peer



Routing Label

The Routing Label is used by the **Route** object to send traffic from one trunk group to the other, and vice versa. Trunk Group routing is used for

this purpose.

One Routing Label is created for each Trunk Group. This Routing Label is used to send calls to that Trunk group. In the below example, the Routing Label "TO_CORE" sends calls to "CORE" trunk group. There is also a Routing Label "TO_PEER" that sends calls to "PEER" trunk group.

```
% set global callRouting routingLabel TO_PEER routingLabelRoute 1 trunkGroup PEER ipPeer PEER
inService inService
% set global callRouting routingLabel TO_CORE routingLabelRoute 2 trunkGroup CORE ipPeer CORE
inService inService
% set global callRouting routingLabel TO_PHONES routingLabelRoute 3 trunkGroup PHONES inService
inService
% set global callRouting routingLabel TO_ACCESSCORE routingLabelRoute 4 trunkGroup ACCESSCORE ipPeer
ACCESSCORE inService inService
```

To view the Routing workspace, select **Configuration > System Provisioning > Category: Call Routing > Routing**.

Figure 7: Routing Label Route

+ Create Routing Label Route

Click on the Create button from inside the Create Routing Label or Edit Routing Label tool to identify what Routing label this will be created for.

Route Type: Trunk Group

Zone for TG and IP Peer: Trunk Group

Trunk Group: BELUR_EXT_EMS

IP Peer: BELUR_EXT_EMS_peer

Cost:

Proportion:

Test: Normal

In Service:

Undo Edits Save

When Trunk Group is selected as the option for **Route Type**, all the Trunk Group related fields are displayed.

+ Create Routing Label Route i - x
 Click on the Create button from inside the Create Routing Label or Edit Routing Label tool to identify what Routing label this will be created for.

Route Type: Trunk Group
 Zone for TG and IP Peer: EXTERNAL
 Trunk Group: BELUR_EXT_EMS
 IP Peer: BELUR_EXT_EMS_peer
 Cost:
 Proportion:
 Test: Normal
 In Service:

Undo Edits Save

When IP Peer is selected as the option for **Route Type**, the Trunk Group related fields are hidden and the field, "Zone for TG and IP Peer" is changed to "Zone for IP Peer". This enhancement allows you to create **Routing Label Routes** with just an IP Peer as an option.

+ Create Routing Label Route i - x
 Click on the Create button from inside the Create Routing Label or Edit Routing Label tool to identify what Routing label this will be created for.

Route Type: IP Peer
 Zone for IP Peer: EXTERNAL
 IP Peer: BELUR_EXT_EMS_peer
 Cost:
 Proportion:
 Test: Normal
 In Service:

Undo Edits Save

For more information about configuring a Routing Label from the EMA, refer to [Call Routing: System Provisioning - Routing](#).

Route

The Route is used to determine how call routing is done. There are different ways to implement routing (dialed number, carrier, calling number, trunk group, etc.) Trunk Group routing is used for this example configuration. It is the simplest and most straight forward way for a "pure" SBC function to be implemented. It allows the operator to add users / routable numbers without having to configure those numbers into the SBC.

For our Trunk Group routing, calls that arrive on trunk group "CORE" are sent to Routing Label "TO_PEER", which routes the call to trunk group "PEER". And in the other direction, calls that arrive on trunk group "PEER" are sent to Routing Label "TO_CORE", which routes the call to the "CORE" trunk group.

In the examples below "DALNBS01" is the name of the SBC being used in this document.

```

% set global callRouting route trunkGroup PEER DALNBS01 standard Sonus_NULL 1 all all ALL none
Sonus_NULL routingLabel TO_CORE
% set global callRouting route trunkGroup CORE DALNBS01 standard Sonus_NULL 1 all all ALL none
Sonus_NULL routingLabel TO_PEER
% set global callRouting route trunkGroup PHONES DALNBS01 standard Sonus_NULL 1 all all ALL none
Sonus_NULL routingLabel TO_ACCESSCORE
% set global callRouting route trunkGroup ACCESSCORE DALNBS01 standard Sonus_NULL 1 all all ALL none
Sonus_NULL routingLabel TO_PHONES
% commit

```

To view the Routing workspace, select **Configuration > System Provisioning > Category: Call Routing > Routing**.

Figure 8: Route

Routing Type: Standard

+ Create Route i - x

Route Type	<input type="text" value="None"/>
Routing Type	<input checked="" type="radio"/> Standard <input type="radio"/> User Name <input type="radio"/> Relay
Destination Country	<input type="text"/>
Destination National	<input type="text"/>
SIP Domain	<input type="text"/>
Routing Label	<input type="text" value="test1"/> + 🔍
Call Parameter Filter Profile	<input type="text" value="None"/>
Time Range Profile	<input type="text" value="All"/>
Call Types	All
Digit Types	All

Routing Type: User Name

+ Create Route i - x

Route Type

Routing Type
 Standard
 User Name
 Relay

User Name

SIP Domain

Routing Label **+ 🔍**

Call Parameter Filter Profile

Time Range Profile

Call Types All

Digit Types All

Routing Type: Relay

+ Create Route
ⓘ - ✕

Route Type	None ▾
Routing Type	<input type="radio"/> Standard <input type="radio"/> User Name <input checked="" type="radio"/> Relay
Destination Country	▾
Relay Port	▾
SIP Domain	▾
Routing Label	test1 ▾ + 🔍
Call Parameter Filter Profile	None ▾
Time Range Profile	All ▾
Call Types	All
Digit Types	All

✕ Undo Edits
📄 Save

For more information on Routing Label, refer to [Call Routing: System Provisioning - Routing](#).

Link Detection

Link Detection is only useful for HA systems (2 units).

Link detection is used to determine if the active unit needs to be failed over to the other unit. If a certain number of links (configurable) within a "link detection group" fail then a failover will occur. A link is considered failed if it loses connectivity to the router (for example if the cable is pulled or if the router port is turned down). In addition if a non-zero ping target IP address is configured, a link can be marked out of service if pings to this predefined IP address fail.

It is recommended to use 0.0.0.0 as the ping target for enterprise and simple deployments. This disables the "ping" test functionality (other link detection functionality is not affected). If you do wish to activate the system failovers using a ping target, please contact Sonus.

If you do activate the ping test functionality (configure a non-zero ping target) you need to be careful to ensure that the ping target IP will ALWAYS respond to "ping", otherwise the SBC detects a link failure, and could cause a failover to the other unit.

⚠ Before "enabling" Link Detection make sure the link lights on the SBC are illuminated, and that the router port is up. Otherwise, right when Link Detection is enabled, a failure will be detected and the unit may fail over.

Configuration Questionnaire

There is an extensive amount of information you need to have up front, before starting the configuration of your SBC Core. You will need to have completed the physical connectivity (Hardware Installation) and IP plan (what IP address will be assigned to each physical port) for your SBC. The IP Plan is generally completed using an Excel spreadsheet. This spreadsheet shows the IP address that will be allocated for each of the various interfaces in your network.

Even for a simple network, it is important to create this document for future reference. See [Creating an IP Plan](#) for details. If needed, please contact Sonus for an example spreadsheet.

Information Needed for Software Application Installation

Once you have installed the SBC hardware, the application software must be installed. As part of this installation, you will be prompted for some configuration information. This step is done from the EMA.

The steps for installing the application are described in [SBC Core Installation and Upgrade Guide](#). As a quick summary, the information configured during this step includes (for each unit of a High Availability (HA) pair):

- System Name
- Host name
- Management IP address for management port 0
- Management IP address for management port 1
- NTP server IP address



The BMC is not applicable to the SBC SWe platform.

Call Processing Configuration for Simple Routing

Table 5: Call Processing Configuration for Simple Routing

Field	Description	Example	Your Data
Zones	SIP Port and Trunk Group reside in Zone. Each Zone represents an external customer (endpoints). There are also a Zone(s) used for internal (Trusted) nodes.	peer core phones accesscore	
SIP Port on Private (Internal) side	IP address used to send and receive SIP messages to equipment on the Private side of the network	192.168.75.10	Included in IP Plan
SIP Port on Public side	IP address used to send and receive SIP messages to equipment on the Public side of the network	10.35.66.189	Included in IP Plan
Trunk Group to Server on Trusted Private side		CORETG	
Trunk Groups to Server on the Un-trusted Public side		PEERTG	
Codec Entries	One entry for each codec that could be used. Used in the PSP (below)	G711-20-RFC2833	

Packet Service Profiles	Used by the Trunk Group to determine the Codecs, Packet Size, Transcoding options. Name this so that it is easy to see which options are offered.	G711-EITHER_OOB-2833 G729AB-EITHER_OOB-2833	
CDR Server (SFTP server)	IP address and log in information for a downstream SFTP server that will receive CDR sent by the SBC 5000 series		
Routing Label	One for each trunk group	TO_PEER TO_CORE	
Route	Using Trunk group routing. Trunk Group CORETG routes to Routing Label TO_PEER, and PEERTG routes to TO_CORE	2 Routes added, one for each trunk group that routes to the other trunk group.	

CLI Script Creates Trunk Group and Routes

Key fields that will change for each trunk group added:

1. NEW_TRUNK - trunk group name.
2. 216.37.55.90 - ip address of far end.
3. CAC call limit currently 50
4. rIToNEW_TRUNK - routing label to NEW_TRUNK
5. peerNEW_TRUNK - ip peer NEW_TRUNK
6. Numbers that route to the pbx - 7652320276 (the below script assumes that the following are already defined):
7. PBX_SIP- ipsignaling profile
8. pspMediaRelay - packet service profile
9. "#" = comment lines

```

# Start of Scrip to add a new trunk group and routing information
# CREATE trunk group
configure
  set addressContext "default" zone "zonePublicTrunking" sipTrunkGroup "NEW_TRUNK" media
mediaIpInterfaceGroupName "customerPublic"
  set addressContext "default" zone "zonePublicTrunking" sipTrunkGroup "NEW_TRUNK" ingressIpPrefix
"216.37.55.90" "32"
  set addressContext "default" zone "zonePublicTrunking" sipTrunkGroup "NEW_TRUNK" policy media
packetServiceProfile "pspMediaRelay"
  set addressContext "default" zone "zonePublicTrunking" sipTrunkGroup "NEW_TRUNK" policy signaling
ipSignalingProfile "PBX_SIP"
  set addressContext "default" zone "zonePublicTrunking" sipTrunkGroup "NEW_TRUNK" signaling methods
message "reject" publish "reject" subscribe "reject" notify "reject" info "reject" register "reject"
update "reject"
  set addressContext "default" zone "zonePublicTrunking" sipTrunkGroup "NEW_TRUNK" cac callLimit "50"

  set addressContext "default" zone "zonePublicTrunking" sipTrunkGroup "NEW_TRUNK" mode inService
  set addressContext "default" zone "zonePublicTrunking" sipTrunkGroup "NEW_TRUNK" state enabled
commit
# Far end IP
  set addressContext "default" zone "zonePublicTrunking" ipPeer "peerNEW_TRUNK" ipAddress
"216.37.55.90" ipPort "5060"
## need to add PSP and sig profile
  set addressContext default zone zonePublicTrunking ipPeer peerNEW_TRUNK policy ipSignalingProfile
PBX_SIP
  set addressContext default zone zonePublicTrunking ipPeer peerNEW_TRUNK policy packetServiceProfile
pspMediaRelay
commit
# Numbers and routing label - do a commit after each 5 number ranges added
commit
  set global callRouting routingLabel "r1ToNEW_TRUNK" routingLabelRoute "1" trunkGroup "NEW_TRUNK"
ipPeer "peerNEW_TRUNK" commit
  set global callRouting route "none" "Sonus_NULL" "Sonus_NULL" "standard" "7652320276" "1" "all"
"all" "ALL" "none" "Sonus_NULL" routingLabel "r1ToNEW_TRUNK"
  set global callRouting route "none" "Sonus_NULL" "Sonus_NULL" "standard" "7652320277" "1" "all"
"all" "ALL" "none" "Sonus_NULL" routingLabel "r1ToNEW_TRUNK"
  set global callRouting routingLabel "r1ToNEW_TRUNK"
commit
exit

# End of Script

```