

SCOPSERV
INTERNATIONAL INC.

How to Make Anonymous Calls From a SIP Trunk



ScopTEL Software Prerequisites:

- You must have a valid copy of the ScopTEL software
- Minimum software release scopserv-telephony25-5.9.7.6.20170720
- Minimum ScopServ Asterisk packages either: asterisk11-11.25.1-3 or asterisk13-13.17.0-1



SIP Options Settings:

- Enable P-Asserted (PAI) should be sent ?[x]

VoIP Accounts

General Server Network Options Billing Incoming Calls Outgoing Calls

DTMF Mode : Automatic (RFC 2833/Inband) ▾


Compensate RFC2833 DTMF transmission ? :
You must have this turned on if connected on another ScopServ/Asterisk pre-1.4 machine or DTMF reception will work improperly.

Trust Remote-Party-ID ? :

Send Remote-Party-ID ? :
This field is often used by wholesale VoIP providers to provide calling party identity regardless of the privacy settings.

P-Asserted-Identity (PAI) should be sent ? :

Codec(s) : G.711 (ulaw)
 G.711 (alaw)
 G.722
 G.723.1 (Not Installed)
 G.726
 G.729 (Not Installed)
 16 bit Signed Linear PCM (slin)
 GSM
 iLBC
 LPC10
 Speex (Not Installed)
 ADPCM
 OPUS
 H.261 Video
 H.263 Video
 H.263+ Video
 H.264 Video
[Select all](#), [Select none](#), [Invert selection](#)
Default: G.711 (ulaw), GSM

Customize Codec Payload ?  :

Maximum Incoming/Outgoing Call :

Enable Fax T.38 Gateway :
SIP Channel Only. If enabled, this VoIP Account will act as a T.38 Gateway for faxes.





Outgoing Line Prefixes:

**You can either suppress all Outgoing Caller ID by enabling RFC-3323 or RFC-3325 on all Outgoing Lines or:
You will need to create an Outgoing Line with a Prefix to activate per call Anonymous calling using RFC-3323 or RFC-3325.**

*67 prefix to suppress outgoing Caller ID using RFC-3323 or RFC-3325



Outgoing Lines | Preferred Identity (RFC-3325):

- For any Outgoing Line to support privacy it is recommended to use RFC-3325
- Enable the Option for Send Preferred Identity (RFC-3325) compliant Privacy headers (SIP)
- The text in 'P-Preferred Identity (RFC-3325) content' is customizable and must be entered in the correct format example: [tel:Anonymous](#) or [tel:Private](#)

If text [tel:Private](#) is entered then the SDP will resemble:

Privacy: id

P-Preferred-Identity: [tel:Private](#)

P-Asserted-Identity: "214" [sip:5555551212@mydomain](#)

If text [tel:Anonymous](#) is entered then the SDP will resemble:

Privacy: id

P-Preferred-Identity: [tel:Anonymous](#)

P-Asserted-Identity: "214" [sip:5555551212@mydomain](#)

Outgoing Lines

General | Dial String | Dial Options | **Caller ID**

Restrict Outgoing CallerID Number ?

CallerID Routing (Source) :

Use Internal CallerID?

Use original Inbound CallerID ?
Specify that the CallerID that was present on the 'calling' channel be set as the CallerID on the 'called' channel.

Force/Override Outgoing CallerID ?

Lookup CallerID from an external source ?

CallerID Number :

Caller Name :

Customize CallerID ?

Advanced CallerID options

Enable Presentation indicator ?

★ Presentation :

Check for custom CallerID in Asterisk Database ?

Send Asserted Identity (RFC-3323) compliant Privacy headers (SIP) ?
This may be beneficial when interfacing with a Nortel SST or an Acme Packet SBC.

Send Preferred Identity (RFC-3325) compliant Privacy headers (SIP) ?

P-Preferred Identity (RFC-3325) content :
If set to Empty, we will not send the P-Preferred-Identity line, only the Privacy header.
Recommended value: tel:\${CALLERID(num)};user=phone

Call Diversion

Enable Call Screening ?

Enable Privacy ?

Save Copy Cancel

Outgoing Lines | Anonymous P-Asserted-Identity :

- For any Outgoing Line to anonymize P-Asserted Identity the Presentation indicator must be Prohibited as in this example:

The resulting SDP will resemble:

Privacy: id

P-Preferred-Identity: <tel:Anonymous>

P-Asserted-Identity: "Anonymous" [sip:anonymous@anonymous.invalid](tel:sip:anonymous@anonymous.invalid)

- Once these Privacy Options are configured Add the Outgoing Line

Outgoing Lines

General | Dial String | Dial Options | **Caller ID** | ENUM

Restrict Outgoing CallerID Number ?

CallerID Routing (Source) :

Use Internal CallerID?

Use original Inbound CallerID ? Specify that the CallerID that was present on the 'calling' channel be set as the CallerID on the 'called' channel.

Force/Override Outgoing CallerID ?

Lookup CallerID from an external source ?

CallerID Number :

Caller Name :

Customize CallerID ?

Advanced CallerID options

Enable Presentation indicator ?

★ Presentation :

Check for custom CallerID in Asterisk Database ?

Send Asserted Identity (RFC-3323) compliant Privacy headers (SIP) ? This may be beneficial when interfacing with a Nortel SST or an Acme Packet SBC.

Send Preferred Identity (RFC-3325) compliant Privacy headers (SIP) ?

P-Preferred Identity (RFC-3325) content : If set to Empty, we will not send the P-Preferred-Identity line, only the Privacy header. Recommended value: tel:\${CALLERID(num)}\;user=phone



Feature Code Block Caller ID| Privacy *67

- In order to customize *67 Privacy you must disable the *67 feature code and create customized Outgoing Lines using the *67 Prefix
- Navigate to Configuration Telephony>Features Code and remove the *67 feature code from the Block Caller ID field

Telephony Settings: Configuration

Configuration Channels Language Time Zones Asterisk Manager External A

Configuration

General Telephony Modules Advanced Modules Commit Menu **Features Code**

Recording/Monitoring Sound Manager Provisioning Security STUN Server

You can override default settings for each tenant(s) in **Manager -> Tenant**.

General

Number of seconds to wait between digits when transferring a call : Default: 3

Maximum time between digits for feature activation (in ms) : Default: 500

Outgoing Call Access Codes

Force Account Code :

Dial Group :

Retry Dial :

Call Completion (CCBS/CCNR) : (Activate) (Deactivate)

Last Number Redial :

Saved Number :

Block Caller ID :

Allow Caller ID :

Call Return/Trace :

Cancel Call Waiting :



Outgoing Lines | *67NXXNXXXXXX!

- Click on Add a new Outgoing Line
- On the General tab you must name the Outgoing Line
- You will have to create many Outgoing Lines with custom Dial Strings
- Name must be descriptive and you will add these Outgoing Lines to Class of Service objects so extensions can have access to these Outgoing Lines
- This example uses *67NXXNXXXXXX! For local North American dialing
- This example also uses example Group ID 1 as will all other examples
- You must select your Bell Canada Trunks using the drop list for Multiple Trunks (VoIP Account) and choose both bellprimarysbc and bellsecondarysbc trunks using the select button. This will allow the Outgoing Line to failover to the Secondary SBC if an INVITE to the Primary SBC fails. The arrow buttons are used to increase or decrease priority of the trunk. The bellprimarysbc must be set with the highest priority.
- Click on the Dial String tab when done

Outgoing Lines

- General
- Dial String
- Dial Options
- Caller ID

* Name : *67NXXNXXXXXX!

Description : Block Caller ID Outbound Local 10 digit Calling

Group ID : 1

* Trunk : Multiple Trunks

* Trunks : bellprimarysbc (SIP) (Global)
bellsecondarysbc (SIP) (Global)

Check Incoming Lines before dialing Trunk ? :
If enabled, we will check if the dialed number match an incoming line on the PBX.

Outgoing Lines | *67NXXNXXXXXX!

- For Type use the drop list to select Custom Dial String
- Enter the text *67NXXNXXXXXX!
- Number of digit to strip = 3 (this will strip *67 from the dialed digits passed to the Trunk)
- Click on Dial Options when done

Outgoing Lines

General **Dial String** Dial Options Caller ID

* Type : Custom Dial String

* Dial String : *67NXXNXXXXXX!

Access Code (Prefix) :

Number of digit to strip ? : 3

Prefix to add to Number :

Maximum number of digit for destination number ? :
If the dialed number exceed the specified number of digit, the number will be cut.

Call Restrictions

Restrict Allowed Outgoing Number ? :

Restrict Disallowed Outgoing Number ? :

Authentication/Password

Authentication (PIN) ? : None
Default: none



Outgoing Lines | *671NXXNXXXXXX!

- Edit Line *67NXXNXXXXXX!
- Change the Name to *671NXXNXXXXXX!
- Click on the Dial String tab


Outgoing Lines



General | Dial String | Dial Options | Caller ID

* Name :

Description :

Group ID :

* Trunk  :

* Trunks :
bellsecondarysbc (SIP) (Global)  

Check Incoming Lines before dialing Trunk ? :
If enabled, we will check if the dialed number match an incoming line on the PBX.




Outgoing Lines | *671NXXNXXXXXX!

- Change the Dial String to *671NXXNXXXXXX!
- Number of digit to strip 4
 - Stripping 4 digits will strip *671 from the dialed digits
- Prefix to add to number: +1
 - Will add +1 prefix to the wild card pattern NXXNXXXXXX! And send all digits to the trunk in E.164 format
 - Example: Dialed digits *6719055551234 will be passed to the trunk as +19055551234 and the resulting Caller ID outbound will be Anonymous
- Click on Copy when done

Outgoing Lines

General | **Dial String** | Dial Options | Caller ID

* Type  : Custom Dial String

* Dial String : *671NXXNXXXXXX!

Access Code (Prefix) :


Number of digit to strip ? : 4


Prefix to add to Number : +1

Maximum number of digit for destination number ? :


If the dialed number exceed the specified number of digit, the number will be cut.

Call Restrictions

Restrict Allowed Outgoing Number ?  :

Restrict Disallowed Outgoing Number ?  :

Authentication/Password

Authentication (PIN) ?  : None

Default: none

Save Copy Cancel



Outgoing Lines | *67tollfree

- Edit Line *67NXXNXXXXXX!
- Change the Name to *67tollfree
- Click on the Dial String tab

Outgoing Lines

General | Dial String | Dial Options | Caller ID

* Name : *67tollfree

Description : Block Caller ID Outbound ~~tollfree~~

Group ID : 1

* Trunk : Multiple Trunks

* Trunks : bellprimarysbc (SIP) (Global)
bellsecondarysbc (SIP) (Global) Select

Check Incoming Lines before dialing Trunk ?
If enabled, we will check if the dialed number match an incoming line on the PBX.

Save Copy Cancel



Outgoing Lines | *67tollfree

- Change the Dial String Type to Dial String
- From the Dial String Drop List select
Toll Free (1-800/844/855/866/877/888)
- Access Code (Prefix) *67
(Access Codes are always stripped)
- Click on Copy when done

Outgoing Lines

General **Dial String** Dial Options Caller ID

* Type : Dial String

* Dial String : Toll Free (1-800/844/855/866/877/888)

Access Code (Prefix) : *67

Number of digit to strip ? : 0

Prefix to add to Number :

Maximum number of digit for destination number ? :

If the dialed number exceed the specified number of digit, the number will be cut.

Call Restrictions

Restrict Allowed Outgoing Number ? :

Restrict Disallowed Outgoing Number ? :

Authentication/Password

Authentication (PIN) ? : None
Default: none



Manager>Class of Service

- Before proceeding to configure Class of Service objects please read this pre-requisite knowledgebase article at <https://blog.scopserv.com/2017/10/how-to-configure-class-of-service-objects/>
- Go to Manager>Class of Service
- You will see a Class of Service>default for each tenant which by default allows all Services, Applications, Outgoing Lines
- It is recommended you Edit the default Class of Service so that each Class of Service so that each Outgoing Line can be re-ordered into the correct priority. Some Class of Service objects should not be included based on individual security concerns i.e.... premiumservices should not be included if extensions and or applications should be disallowed from calling these services.

Class of Service: [1 to 1 of 1]							+ Add a new Class				
<input type="checkbox"/>	<input type="text"/>	<input type="button" value="Search"/>	Name	Description	Services	Applications	Outgoing Lines	Schedule	Tenant	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text"/>	<input type="button" value="Search"/>	default	Default	All Services	All Applications	All Outgoing Lines		default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Class of Service | Outgoing Lines

- Edit the Class of Service and click on Outgoing Lines
- Uncheck the Enable All Outgoing Lines option.
- Click on the Select button to start adding Outgoing Lines to the allowed list.
- NOTE: Class of Service uses digit pattern matching to match the most explicit pattern match first. It is critical to ensure that the order in which Outgoing Lines is prioritized using the up and down arrows after adding Outgoing Lines to the list.

The screenshot shows the 'Class of Service' configuration interface. At the top, there is a blue header bar with the text 'Class of Service'. Below this, there are several tabs: 'General', 'Services', 'Applications', 'Local Extensions', 'Outgoing Lines' (which is currently selected and highlighted in blue), and 'Miscellaneous'. The main content area is divided into two sections. The top section is titled 'Enable All Outgoing Lines ?' and has an unchecked checkbox. Below this is a large white rectangular area labeled 'Allow Outgoing Lines :'. To the right of this area are vertical up and down arrows for reordering. At the bottom right of this area is a blue 'Select' button. The bottom section is titled 'Enable All Incoming Lines ?' and also has an unchecked checkbox. At the very bottom of the interface are three buttons: 'Save', 'Copy', and 'Cancel'.



CoS | Outgoing Lines

- Use the Select button again to add additional Outgoing Lines to the Allow Outgoing Lines list

Telephony Manager: Class of Service

Multi Tenants Class of Service Scheduler Holidays

Class of Service

General Services Applications Local Extensions Outgoing Lines Miscellaneous

Enable All Outgoing Lines ? Please note this option does not include emergency lines

Allow Outgoing Lines : 911 (911)

Select

Enable All Incoming Lines ? :

Save Copy Cancel

CoS | Outgoing Lines

- This is an example of the order/priority of Outgoing Lines

Class of Service

General Services Applications Local Extensions **Outgoing Lines** Miscellaneous

Enable All Outgoing Lines ? *Please note this option does not include emergency lines*

Allow Outgoing Lines :

- 911 (911)
- *67tollfree (1)
- *671NXXNXXXXXX! (1)
- *67NXXNXXXXXX! (1)
- tollfree (1)
- 1NXXNXXXXXX! (1)
- NXXNXXXXXX! (1)
- 011X. (1)
- Local Extensions
- carrierservices
- businessservices

Enable All Incoming Lines ? :

Select



Extensions | Class of Service

- By default all Extensions are assigned Class of Service default
- This means that by default all Extensions will have the Outgoing Lines, Services, Applications that were previously applied to the default Class of Service object. Therefore any additional modifications to the default Class of Service will be automatically applied to any other Telephony object which is already assigned the default Class of Service
- Unlimited additional Class of Service objects can be created and may be assigned to Extensions, Applications, Outgoing Lines etc... at any time

Extensions Manager: Phones

Phones
Extension Groups
Pickup Groups
Speed Dial
Directory
Security (ACL)
Hints (Subscribe)

Templates: (License Maximum: 6 of 50)

Search

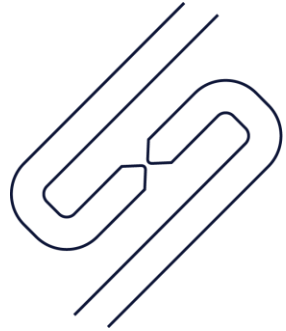
⚠ No information have been specified.

Phones: [1 to 6 of 6] (License Maximum: 6 of 50)

Search

			Extension	Name	Type	Class of Service
<input type="checkbox"/>			1000	1000	SIP (UDP)	default
<input type="checkbox"/>			1001	1001	SIP (UDP)	default
<input type="checkbox"/>			1002	1002	SIP (UDP)	default
<input type="checkbox"/>			1003	1004	SIP (UDP)	default
<input type="checkbox"/>			1004	1004	SIP (UDP)	default
<input type="checkbox"/>			1005	1005	SIP (UDP)	default





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Congratulations