



Configuring cBarge and Privacy for Shared Lines

First Published: November 19, 2010

This module describes the cBarge and Privacy Skinny Client Control Protocol (SCCP) telephony control (STC) application (STCAPP) supplementary-service features for IP and analog phones connected to the same Foreign Exchange Station (FXS) ports on a Cisco VG2nn Analog Gateway. While the cBarge feature allows an idle phone to automatically join an already active call on the same shared line just by going offhook, the Privacy feature disallows other users to cBarge into an active call on a shared line. These features are not supported in Cisco Unified Communications Manager Express (Cisco Unified CME).

Finding Feature Information in This Module

Your Cisco IOS software release may not support all of the features documented in this module. To reach links to specific feature documentation in this module and to see a list of the releases in which each feature is supported, use the “[Feature Information for cBarge and Privacy for Shared Lines](#)” section on page 168.

Finding Support Information for Platforms and Cisco IOS Software Images

Use Cisco Feature Navigator to find information about platform support and Cisco IOS and Catalyst OS software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.

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Prerequisites for cBarge and Privacy for Shared Lines

cBarge and Privacy for Shared Lines require the following software component:

- Cisco Unified Communications Manager (Cisco Unified CM) 7.0 or later

cBarge for Shared Lines requires the following hardware component:

- Hardware conference (DSPfarm) resource is registered so that the Cisco Unified CM can perform media mixing with the hardware conference digital signal processors

Restrictions for cBarge and Privacy for Shared Lines

- These features are not supported in Cisco Unified CME.

Benefits of cBarge and Privacy for Shared Lines

The cBarge feature provides parity with incumbent time-division multiplexing PBXs.

Information About cBarge and Privacy for Shared Lines

To enable SCCP supplementary features on analog phones connected to FXS ports on a Cisco voice gateway, you should understand the following concepts:

- [Feature Summary, page 161](#)
- [cBarge and Privacy for Shared Lines, page 161](#)

Feature Summary

Table 1 contains information about SCCP-based cBarge and Privacy for Shared Lines on Cisco Voice Gateways.

Table 1 cBarge and Privacy for Shared Lines

Feature	How Phone User Accesses Feature	Configuration on Call-Control System
<p>cBarge for Shared Lines</p> <p>Allows idle IP or analog phones that are connected to the same FXS ports on a Cisco VG2nn Analog Gateway to automatically join already active calls on the same shared lines by simply going offhook.</p>	<p>When there is an existing conversation on a shared line, user goes offhook to cBarge into the conversation.</p> <p>Note Only one analog phone is allowed to cBarge into an active call. When one phone has already been allowed to cBarge into an existing conversation, no other shared line analog phone can cBarge into it.</p>	<p>No configuration tasks required on your Cisco call-control system.</p>
<p>Privacy for Shared Lines</p> <p>Disallows other users to cBarge into active calls on the same FXS ports on a Cisco VG2nn Analog Gateway.</p>	<p>Configuring the port on a shared line on the Cisco Unified CM to Privacy prevents other phones on the shared line to barge into active calls.</p>	<p>No configuration tasks required on your Cisco call-control system.</p>

cBarge and Privacy for Shared Lines

The cBarge feature allows any idle IP or analog phone on a shared line or connected to the same port to automatically join an already active call on the same shared line by simply going offhook. Through the Cisco Unified CM, the three parties are allowed to hold a conference call.



Note

Only one analog phone is allowed to cBarge into an active call. When one phone has already been allowed to cBarge into an existing conversation, no other shared line analog phone can cBarge into it.

In analog switching systems, a single analog port can be connected to multiple analog phones such that when a phone is in an active conversation, any other phone that is connected to the same port can go offhook to join in the conversation.

In digital IP switching (or PBX) systems, a similar capability is supported and it is called a shared line. All the phones using the same directory number are called shared line phones. When there is an existing conversation on a shared line, going offhook enables another shared line phone to cBarge into the conversation.



Note

When cBarge is configured, privacy might be an issue because any idle phone on the shared line that goes offhook can join an existing conversation regardless of the idle phone user's desire to join the call or not.

Privacy is a feature that blocks other phones on a shared line to cBarge into a conversation.

Configuring the port on a shared line on the Cisco Unified CM to Privacy prevents other phones on the shared line to barge into active calls.

How to Configure cBarge and Privacy for Shared Lines

**Note**

This document does not contain details about configuring Cisco Unified CM. See the documentation for this product for installation and configuration instructions.

This section contains the following tasks for configuring cBarge and Privacy for shared lines:

- [Configuring cBarge for Shared Lines, page 162](#)
- [Configuring Privacy for Shared Lines, page 163](#)

Configuring cBarge for Shared Lines

To enable cBarge for analog endpoints in the Cisco Unified CM, perform the following steps on the Cisco VG2nn Analog Gateways.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **stcapp supplementary-services**
4. **port *port-number***
5. **hold-resume**
6. **cbarge**
7. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none">Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	stcapp supplementary-services Example: Router(config)# stcapp supplementary-services	Enters supplementary-service configuration mode.
Step 4	port <i>port-number</i> Example: Router(config-stcapp-supp)# port 2/0	Specifies analog FXS voice port on which STCAPP supplementary-service features are to be supported. <ul style="list-style-type: none"><i>port-number</i>—Voice port number. Range is 2/0 to 2/23.
Step 5	hold-resume Example: Router(config-stcapp-supp-port)# hold-resume	Supports the two-call feature cBarge.
Step 6	cbarge Example: Router(config-stcapp-supp-port)# cbarge	Enables idle phones to join an active call on a shared line. Note Hold/Resume has to be configured if cBarge is to be supported.
Step 7	end Example: Router(config-stcapp-supp-port)# end	Exits STC application supplementary-service configuration mode and returns to privileged EXEC mode.

Configuring Privacy for Shared Lines

To enable Privacy for analog endpoints in the Cisco Unified CM, perform the following steps on the Cisco VG2nn Analog Gateways.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **stcapp supplementary-services**
4. **port *port-number***
5. **privacy{ on | off }**
6. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none">Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	stcapp supplementary-services Example: Router(config)# stcapp supplementary-services	Enters supplementary-service configuration mode.
Step 4	port <i>port-number</i> Example: Router(config-stcapp-supp)# port 2/0	Specifies analog FXS voice port on which STC application supplementary-service features are to be supported. <ul style="list-style-type: none"><i>port-number</i>—Voice port number. Range is 2/0 to 2/23.
Step 5	privacy {on off} Example: Router(config-stcapp-supp-port)# privacy on	Prevents other ports on the shared line to cBarge into its active call. <ul style="list-style-type: none">on—Privacy is turned on on this port.off—Privacy is turned off on this port.
Step 6	end Example: Router(config-stcapp-supp-port)# end	Exits STC application supplementary-service configuration mode and returns to privileged EXEC mode.

Configuration Examples for cBarge and Privacy for Shared Lines

This section provides the following configuration examples:

- [Example: Configuring cBarge for Shared Lines, page 165](#)
- [Example: Configuring Privacy for Shared Lines, page 165](#)
- [Example: Privacy for Shared Lines on Cisco VG204, page 165](#)

Example: Configuring cBarge for Shared Lines

The following is a sample output from the **show run** command showing how to enable the cBarge STCAPP supplementary-service feature for analog phones connected to port 2/4 on a Cisco VG224. A similar sample output can also be displayed using the **show stcapp device voice-port x/x (or x/x/x)** command.

```
Router(config)# show run
.
.
.
stcapp supplementary-services
port 2/4
  hold-resume
  cbarge
fallback-dn 5005
end
```

Example: Configuring Privacy for Shared Lines

The following is a sample output from the **show run** command showing how to enable the Privacy STCAPP supplementary-service feature for analog phones connected to port 2/4 on a Cisco VG224. A similar sample output can also be displayed using the **show stcapp device voice-port x/x (or x/x/x)** command.

```
Router(config)# show run
.
.
.
stcapp supplementary-services
port 2/4
  privacy on
end
```

Example: Privacy for Shared Lines on Cisco VG204

The following is a sample output from the **show stcapp device** command showing the Privacy STCAPP supplementary-service feature disabled on port 0/2 of a Cisco VG204:

```
Router(config)# show stcapp device voice-port 0/2

Port Identifier: 0/2
Device Type:    ALG
Device Id:     3
Device Name:   AN1FCAC3B790002
Device Security Mode : None
Modem Capability: None
Device State:  IS
Diagnostic:    None
Directory Number: 9886087491
Dial Peer(s): 87488
Dialtone after remote onhook feature: activated
Busytone after remote onhook feature: not activated
Last Event:    STCAPP_DC_EV_DEVICE_FEATURE_STATUS
Line State:    IDLE
Line Mode:     CALL_BASIC
Hook State:    ONHOOK
mwi:          DISABLE
```

```
vmwi:                OFF
mwi config:          Both
Privacy:              OFF
PLAR:                 DISABLE
Callback State:      IDLE
CWT Repetition Interval: 3 second(s)
Number of CCBs:      0
Global call info:
  Total CCB count     = 1
  Total call leg count = 1
```

Additional References

The following sections provide references related to SCCP analog phone support for FXS ports on the Cisco voice gateway.

Related Documents

Related Topic	Document Title
Cisco Unified Communications Manager	Cisco Unified Communications Manager
Cisco Unified Communications Manager Express	Cisco Unified Communications Manager Express
Cisco IOS debugging	Cisco IOS Debug Command Reference
Cisco IOS voice commands	Cisco IOS Voice Command Reference
Cisco IOS voice configuration	Cisco IOS Voice Configuration Library
Cisco voice gateway	<ul style="list-style-type: none"> • Cisco VG200 Series Gateway • Cisco 1800 Series Integrated Services Routers • Cisco 2800 Series Integrated Services Routers • Cisco 3800 Series Integrated services Routers • Cisco Unified 500 Series
Conferencing and transcoding resources	<ul style="list-style-type: none"> • “Configuring Enhanced Conferencing and Transcoding for Voice Gateway Routers” chapter in the Cisco Unified CallManager and Cisco IOS Interoperability Guide. • Cisco CallManager and IOS Gateway DSP Farm Configuration Example

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	http://www.cisco.com/techsupport

Feature Information for cBarge and Privacy for Shared Lines

Table 2 lists the features in this module and provides links to specific configuration information. Only features that were introduced or modified in Cisco IOS Release 15.1(3)T or a later release appear in the table.

For information on a feature in this technology that is not documented here, see the “[Supplementary Services Features Roadmap](#)” section on page 1.

Not all commands may be available in your Cisco IOS software release. For release information about a specific command, see the command reference documentation.

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which Cisco IOS and Catalyst OS software images support a specific software release, feature set, or platform. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.


Note

Table 2 lists only the Cisco IOS software release that introduced support for a given feature in a given Cisco IOS software release train. Unless noted otherwise, subsequent releases of that Cisco IOS software release train also support that feature.

Table 2 Feature Information for cBarge and Privacy for Shared Lines

Feature Name	Releases	Feature Information
cBarge for Shared Lines	15.1(3)T	<p>Allows idle IP or analog phones that are connected to the same FXS ports on a Cisco VG2nn Analog Gateway to automatically join already active calls on the same shared lines by simply going offhook. This feature is supported in Cisco Unified CM only.</p> <p>The following sections provide information about this feature:</p> <ul style="list-style-type: none"> Information About cBarge and Privacy for Shared Lines, page 160 How to Configure cBarge and Privacy for Shared Lines, page 162. <p>The following commands were introduced or modified: cbarge.</p>
Privacy for Shared Line Phones	15.1(3)T	<p>Disallows other users to cBarge into active calls on the same FXS ports on a Cisco VG2nn Analog Gateway. This feature is supported in Cisco Unified CM only.</p> <p>The following sections provide information about this feature:</p> <ul style="list-style-type: none"> Information About cBarge and Privacy for Shared Lines, page 160 How to Configure cBarge and Privacy for Shared Lines, page 162. <p>The following commands were introduced or modified: privacy (supplementary-service).</p>

