



## Cisco BroadWorks Calling Line ID Delivery Blocking Configure Guide



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## I Introduction

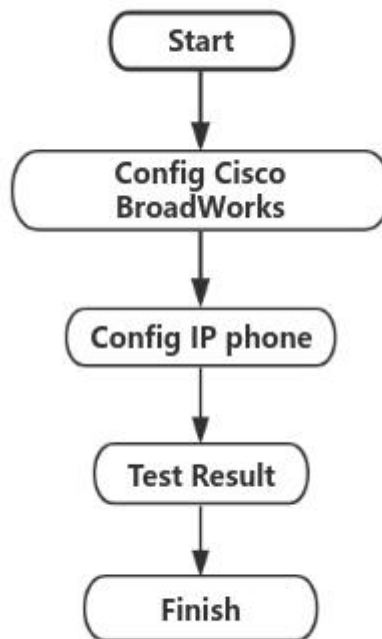
### 1. Feature Introduction

Calling Line ID Delivery Blocking is one of the special features of Cisco BroadWorks. Unlike other types of anonymous calls, Calling Line ID Delivery Blocking can completely hide the caller's ID information. In addition to hiding the caller's name and number during caller ID, the caller's information is also completely hidden in the SIP message. Even if the other party uses packet capture to capture the message, the caller's identity information cannot be known. This makes some encrypted calls more secure, eliminating the possibility of third parties snooping.

### 2. Precautions

Calling Line ID Delivery Blocking can only be used when calling extension between **different groups**. If the extensions are in the same group, Calling Line ID Delivery Blocking will not take effect.

## II Configuration Process



### III Configuration Operations

#### 1. Config Cisco BroadWorks

##### ① Log in to Cisco BroadWorks

###### Operation steps:

Enter the Cisco BroadWorks address in the browser -- 》 Enter the User ID and Password -- 》 Click Login-- 》 Login successful-- 》 Enter the user interface corresponding to the line you need to use.



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Enterprise	Welcome [Logout]	
<b>Options:</b> <ul style="list-style-type: none"> <li>▶ Profile</li> <li>Resources</li> <li>Services</li> <li>Call Center</li> <li>Communication Barring</li> <li>Meet-Me Conferencing</li> <li>Utilities</li> </ul>	<b>Profile</b> <b>Basic</b> <b>Groups</b> Add, modify, or remove groups. <b>Users</b> Display all users in the enterprise. <b>Service Instances</b> Display all service instances in the enterprise. <b>Profile</b> Display or modify profile information. <b>Change Password</b> Change your password. <b>Administrators</b> Add, modify, or remove administrators. <b>Departments</b> Add, modify, or remove departments. <b>Schedules</b> Add, modify, or remove schedules.	<b>Advanced</b> <b>Activation Code Device Onboarding Policies</b> Configure service provider/enterprise level Activation Code Device Onboarding Policies. <b>Call Processing Policies</b> Configure service provider/enterprise level Call Processing Policies. <b>Communication Barring Authorization Codes</b> Configure enterprise-level Communication Barring authorization codes. <b>Dial Plan Policy</b> Configure service provider/enterprise level Dial Plan Policy. <b>Voice VPN</b> Manage the enterprise virtual private network. <b>Virtual On-Net Enterprise Extensions</b> Manage Virtual On-Net Users. <b>Dialable Caller ID</b> Automatically prepend digits to the incoming caller ID of public calls so the caller ID is presented in dialable format. <b>STIR-SHAKEN</b> Configure STIR-SHAKEN signing, tagging, and verification.



Options:

- Profile
- Incoming Calls
- Outgoing Calls
- Call Control
- Calling Plans
- Messaging
- Communication Barring
- Utilities

**Profile**

User interface

**Basic**

**Profile**

Display and configure profile information such as your name, department and address.

**Addresses**

Addresses allows you to view and maintain your phone numbers and other identities that are used to make and receive calls.

**Announcement Repository**

Manage the announcements for a user

**Passwords**

Set web access and portal passwords.

**Schedules**

Add, modify, or remove schedules.

**Advanced**

**Assign Services**

Assign or unassign services and service packs.

**Assign Xsi Policy Profile**

Assign a Xsi policy profile for a user.

**Call Application Policies**

Select Call Control Applications enabled for a user.

**Call Policies**

Configure user Call Policies

**Call Processing Policies**

Configure user-level Call Processing Policies

**Communication Barring Authorization Codes**

Configure Communication Barring Authorization codes for a user.

**Device Policies**

Configure user Device Policies.



## ② Assign Services

### Operation steps:

Assign Services--» Select the required Services (Calling Line ID Delivery Blocking)--» Add--» The required Services appears in the box on the right--» Apply.

Enterprise > Flying\_voice\_group1 > Users : 9725983507@iop1as.tekvizion.com Welcome

**Options:**

- ▶ Profile
- Incoming Calls
- Outgoing Calls
- Call Control
- Calling Plans
- Client Applications
- Messaging
- Communication Barring
- Utilities

### Profile

**Basic**

**Profile**  
Display and configure profile information such as your name, department and address.

**Addresses**  
Addresses allows you to view and maintain your phone numbers and other identities that are used to make and receive calls.

**Announcement Repository**  
Manage the announcements for a user.

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Set web access and portal passwords.

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Add, modify, or remove schedules.

**Advanced**

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Assign or unassign services and service packs.

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Select Call Control Applications enabled for a user.

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Configure user Call Policies.

**Call Processing Policies**  
Configure user-level Call Processing Policies.

**Communication Barring Authorization Codes**  
Configure Communication Barring Authorization codes for a user.

**Device Policies**  
Configure user Device Policies.

**Supervisor**  
Allows the user to manage which agents to supervise per call center.

### Assign Services

Assign Services allows you to assign or unassign services and service packs for a user. If a service or service pack is unassigned the service data that has been filled out will be lost.

OK    Apply    Cancel

**Available Service Packs**

Flyingvoice-service pack

Add >

Remove <

Add All >>

Remove All <<

**User Service Packs**

---

**Available Services**

- Call Center Monitoring
- Call Center - Premium
- Call Center - Standard
- Call Forwarding Always Secondary
- Call Forwarding Not Reachable
- Call Forwarding Selective
- Calling Line ID Blocking Override
- ② Calling Line ID Delivery Blocking
- Calling Name Delivery
- Calling Name Retrieval
- ⑤ Calling Number Delivery

③ Add >

Remove <

Add All >>

Remove All <<

**User Services**

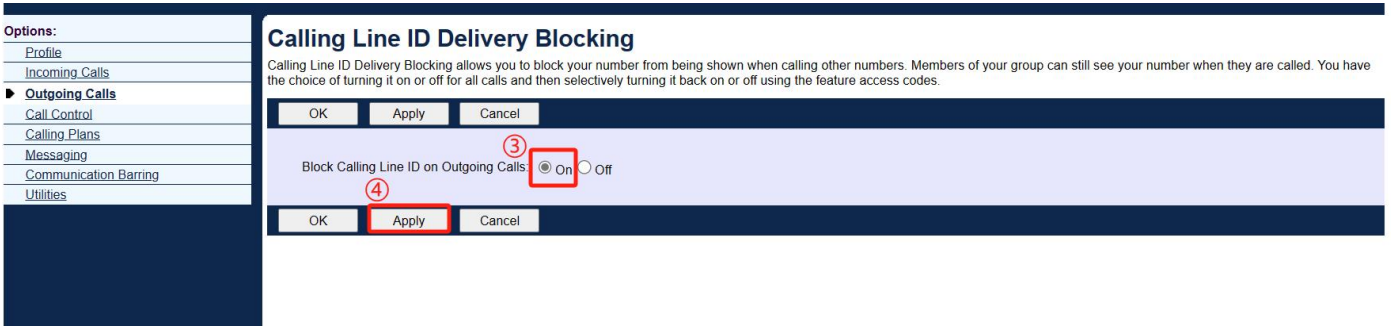
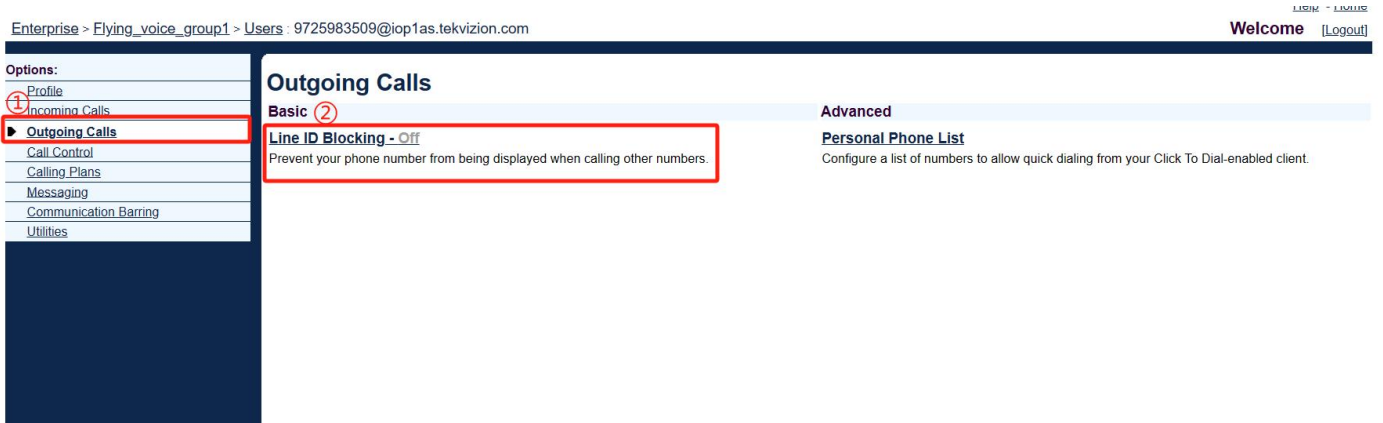
- Authentication
- Call Forwarding Always → ④
- Call Forwarding Busy
- Call Forwarding No Answer
- Call Recording
- Call Transfer
- Connected Line Identification Presentation
- Do Not Disturb
- Executive
- Executive-Assistant
- External Calling Line ID Delivery

OK    Apply    Cancel

### ③ Enable Calling Line ID Delivery Blocking

#### Steps:

Outgoing Calls--> Line ID Blocking--> Check On --> Apply.



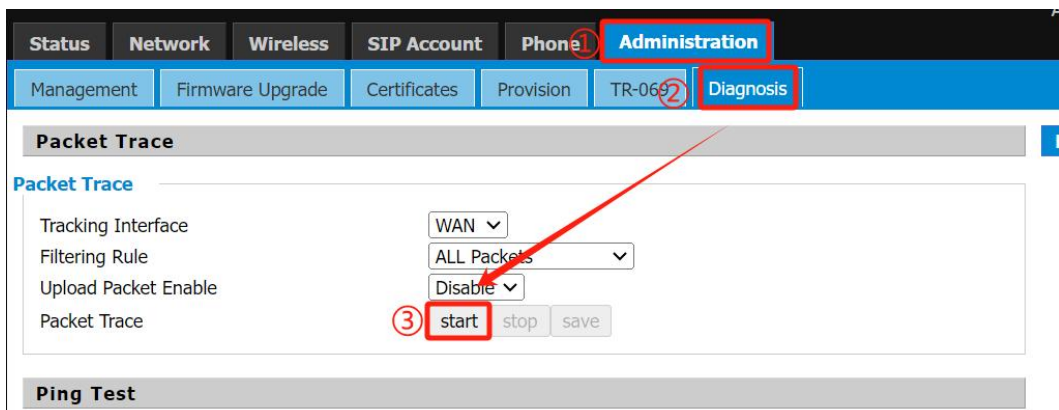
## 2、Configure IP phones

Register extension numbers on all IP phones.

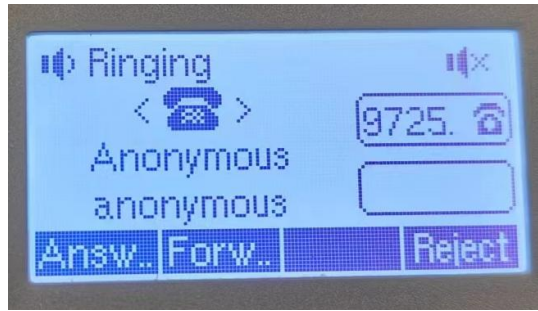
## IV Test Result

#### Operation Steps:

1. Enable packet Trace on 3509:



2. Use 3525(in group 2, Line ID blocking has been set up) dial to 3509(in group 1) , 3525 picks up the phone and starts the call. The caller ID of 3525 should be as shown below:



3. 3509 Stop capture and save the packet .



4. Analyze packet capture.

No.	Time	Source	Destination	Protocol	Length	Info
583	7.337522	192.65.79.250	192.168.11.242	SIP/SDP	1366	Request: INVITE sip:9725983509@192.168.11.242:
584	7.345870	192.168.11.242	192.65.79.250	SIP	522	Status: 100 Trying
585	7.349473	192.168.11.242	192.65.79.250	SIP	534	Status: 180 Ringing
686	11.733216	192.168.11.242	192.65.79.250	SIP/SDP	1094	Status: 200 OK (INVITE)
711	12.238139	192.168.11.242	192.65.79.250	SIP/SDP	1094	Status: 200 OK (INVITE)
747	12.665420	192.65.79.250	192.168.11.242	SIP	485	Request: ACK sip:9725983509@192.168.11.242:19967 SIP/2.0
777	12.997478	192.168.11.242	192.65.79.250	SIP	868	Request: REGISTER sip:iop1as.tekvizion.com (1 binding)
826	13.458277	192.65.79.250	192.168.11.242	SIP	438	Status: 200 OK (REGISTER) (1 binding)

```

Session Initiation Protocol (INVITE)
  > Request-Line: INVITE sip:9725983509@192.168.11.242:19967 SIP/2.0
  ② > Message Header
    > Via: SIP/2.0/UDP 192.65.79.250:5060;branch=z9hG4bKt7s0ie20607pr0a400.1
    ③ > From: "Anonymous"<sip:anonymous@anonymous.invalid>;tag=252261889-170487720622-
    > To: "Joe Namath"<sip:9725983509@iop1as.tekvizion.com>
    Call-ID: BW030840622100124-1268642896@199.182.127.3
    [Generated Call-ID: BW030840622100124-1268642896@199.182.127.3]
    > CSeq: 961593880 INVITE
    > Contact: <sip:anonymous@192.65.79.250:5060;transport=udp>
    Alert-Info: <http://127.0.0.1/Bellcore-dr2>
  
```



