



SIP Hotspot

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Contents

Contents.....	1
1 Introduction.....	2
1.1 Overview.....	2
1.2 Applicable Models.....	2
1.3 Instance.....	2
2 Operation Guide.....	3
2.1 Configuring SIP Hotspot.....	3
2.1.1 registered number.....	3
2.1.2 Not registered number(As a hot spot server, only X56 series support Numbers).....	3
2.1.3 Take X6 phone as an example to set up SIP Hotspot.....	5
2.2 Settings of X210i as a hotspot server.....	6
2.2.1 Server Settings.....	6
2.2.2 Hot extension management.....	7
2.2.3 An extension to upgrade.....	9
2.3 SIP Hot Client Settings.....	9

1 Introduction

1.1 Overview

SIP hotspot is a simple but practical function. With simple configurations, the SIP hotspot function can implement group ringing. SIP accounts can be expanded.

Telephone set A functions as a SIP hotspot and other telephone sets (B and C) function as SIP hotspot clients. When somebody calls telephone set A, telephone sets A, B, and C all ring. When any telephone set answers the call, other telephone sets stop ringing. The call can be answered by only one telephone set. When B or C initiates a call, the SIP number registered by telephone set A is the calling number.

1.2 Applicable Models

This function is available in versions later than V25. Currently, the following telephone set models support this function:

- X series telephone sets
- H series telephone sets
- Industry series telephone sets

1.3 Instance

For example, a telephone set is deployed in the bedroom, living room, and bathroom of a user. Different accounts need to be set for the telephone sets. With the SIP hotspot function, only an account needs to be registered, facilitating management. SIP accounts can be expanded. Without the SIP hotspot function, when there is an incoming call and the called number is the phone number of the telephone set in the living room, only the telephone set in the living room rings. With the hotspot function, all telephone sets in the bedroom, living room, and bathroom ring. When any telephone set answers the call, other telephone sets stop ringing.

2 Operation Guide

2.1 Configuring SIP Hotspot

2.1.1 registered number

The hot spot server supports the registration number and issues the extension number

The screenshot displays the 'Register Settings' configuration page for a SIP Hotspot. At the top, the 'Line' dropdown is set to '2@SIP1'. Below this, the 'Register Settings >>' section is active. The 'Line Status' is 'Registered'. The 'Username' is '2', 'Display name' is '2', and 'Realm' is empty. The 'Activate' checkbox is checked. The 'Authentication User' is empty, 'Authentication Password' is masked with dots, and 'Server Name' is empty. Below these are two columns for 'SIP Server 1' and 'SIP Server 2'. For SIP Server 1, the 'Server Address' is '172.16.1.2', 'Server Port' is '5060', 'Transport Protocol' is 'UDP', and 'Registration Expiration' is '3600' seconds. For SIP Server 2, all fields are empty except for 'Server Port' which is '5060' and 'Registration Expiration' which is '3600' seconds. At the bottom, there are fields for 'Proxy Server Address', 'Proxy Server Port' (5060), 'Proxy User', and 'Proxy Password', as well as 'Backup Proxy Server Address' and 'Backup Proxy Server Port' (5060). Each input field has a help icon (question mark) to its right.

2.1.2 Not registered number(As a hot spot server, only X56 series support Numbers)

Hot spot server support no registration number, issued extension number, when not registered account, the number is required.

Line 2@SIP1

Register Settings >>

Line Status:	Inactive	Activate:	☐
Username:	2	Authentication User:	
Display name:	2	Authentication Password:	
Realm:		Server Name:	

SIP Server 1:	SIP Server 2:
Server Address: 172.16.1.2	Server Address:
Server Port: 5060	Server Port: 5060
Transport Protocol: UDP	Transport Protocol: UDP
Registration Expiration: 3600 second(s)	Registration Expiration: 3600 second(s)
Proxy Server Address:	Backup Proxy Server Address:
Proxy Server Port: 5060	Backup Proxy Server Port: 5060
Proxy User:	
Proxy Password:	

Line 2_1@SIP1

Register Settings >>

Line Status:	Registered	Activate:	☒
Username:	2	Authentication User:	
Display name:	2_1	Authentication Password:	
Realm:	1.hotspot	Server Name:	

SIP Server 1:	SIP Server 2:
Server Address: 172.16.12.233	Server Address:
Server Port: 5060	Server Port: 5060
Transport Protocol: UDP	Transport Protocol: UDP
Registration Expiration: 3600 second(s)	Registration Expiration: 3600 second(s)
Proxy Server Address: 172.16.12.233	Backup Proxy Server Address:
Proxy Server Port: 5060	Backup Proxy Server Port: 5060
Proxy User:	
Proxy Password:	

Note: when the server dials the extension, it needs to enable the configuration of "Dial Without Registered".

The position of the configuration item is shown below:

Line 2@SIP1

Register Settings >>

Basic Settings >>

Enable Auto Answering: ☐	Auto Answering Delay: 5 (0~120)second(s)
Call Forward Unconditional: ☐	Call Forward Number for Unconditional:
Call Forward on Busy: ☐	Call Forward Number for Busy:
Call Forward on No Answer: ☐	Call Forward Number for No Answer:
Call Forward Delay for No Answer: 5 (0~120)second(s)	Transfer Timeout: 0 second(s)
Conference Type: Local	Server Conference Number:
Subscribe For Voice Message: ☐	Voice Message Number:
Voice Message Subscribe Period: 3600 (60~999999)second(s)	Enable Hotline: ☐
Hotline Delay: 0 (0~9)second(s)	Hotline Number:
Dial Without Registered: ☒	Enable Missed Call Log: ☒
DTMF Type: AUTO	DTMF SIP INFO Mode: Send 10/11
Request With Port: ☒	Enable DND: ☐
Use STUN: ☐	Use VPN: ☒

2.1.3 Take X6 phone as an example to set up SIP Hotspot

The following is an example of setting an X6 telephone set as a SIP hotspot.

1. On the SIP Hotspot tab page, set Enable Hotspot to Enabled.
2. Set Mode to Hotspot so that the telephone set functions as a SIP hotspot.
3. Set Monitor Type to Broadcast or Multicast. To restrict broadcast packets on the network, set Monitor Type to Multicast. The monitor types on the server and client must be the same. For example, if the monitor type is set to Multicast for the telephone set serving as a client, the monitor type must also be set to Multicast for the telephone set serving as the SIP hotspot server.
4. When Monitor Type is set to Multicast, set Monitor Address to the multicast communications address used between the client and the server. When Monitor Type is set to Broadcast, Monitor Address does not need to be configured and the system uses the broadcast IP address of the WAN port of the telephone set for communication by default.
5. Set Local Port to the custom hotspot communications port. The communication ports set on the server and client must be the same.
6. Set Name to the name of the SIP hotspot.
7. External ringing mode: ALL: both extension and host ring; Extension: only extension ringing; Host: only host rings.
8. In Line Settings, set whether to enable the SIP hotspot function for each SIP line.

Line Settings

Line 1:	Enabled
Line 2:	Enabled
Line 3:	Enabled
Line 4:	Enabled
Line 5:	Enabled
Line 6:	Enabled
Line 7:	Enabled
Line 8:	Enabled
Line 9:	Enabled
Line 10:	Enabled
Line 11:	Enabled
Line 12:	Enabled
Line 13:	Enabled
Line 14:	Enabled
Line 15:	Enabled
Line 16:	Enabled
Line 17:	Enabled
Line 18:	Enabled
Line 19:	Enabled
Line 20:	Enabled

Apply

- When a SIP hotspot client is connected, the access device list will display the device connected to the SIP hotspot and its alias (extension).

Note: for X210i as hotspot server, see 2.2 X210i hotspot server Settings

2.2 Settings of X210i as a hotspot server

2.2.1 Server Settings

When X210i works as a hotspot server, you can set the extension prefix in addition to the above server Settings. The extension prefix is the prefix with which the extension account is sent.

Extension prefix:

Each line can enable/disable the extension prefix

After setting the extension prefix, the extension number is the prefix + the assigned extension number

For example, the prefix is 8, the assigned extension is 001, and the actual extension is 8001

Line Settings

Line 1: Enabled
Line 2: Enabled
Line 3: Enabled
Line 4: Enabled
Line 5: Enabled
Line 6: Enabled
Line 7: Enabled
Line 8: Enabled
Line 9: Enabled
Line 10: Enabled
Line 11: Enabled
Line 12: Enabled
Line 13: Enabled
Line 14: Enabled
Line 15: Enabled
Line 16: Enabled
Line 17: Enabled
Line 18: Enabled
Line 19: Enabled
Line 20: Enabled

Ext Prefix 1:
Ext Prefix 2:
Ext Prefix 3:
Ext Prefix 4:
Ext Prefix 5:
Ext Prefix 6:
Ext Prefix 7:
Ext Prefix 8:
Ext Prefix 9:
Ext Prefix 10:
Ext Prefix 11:
Ext Prefix 12:
Ext Prefix 13:
Ext Prefix 14:
Ext Prefix 15:
Ext Prefix 16:
Ext Prefix 17:
Ext Prefix 18:
Ext Prefix 19:
Ext Prefix 20:

Apply

2.2.2 Hot extension management

Note: when X210i is a hot server, it is necessary to manually move the unmanaged extension information to the managed extension information

Hot extension management interface can be used to manage the extension device, and the device can be restarted or upgraded after being added to the managed device. When a device is added to a group, dial the group number and all devices in the group will ring.

Enable management mode: 0 non-management mode, allowing access to any device; 1 management mode, only the configured devices are allowed to access and use

Unmanaged extension information:

The hotspot server sends an account to the device with the hotspot client enabled and displays it in the unmanaged extension list.

UnManaged Extension Information							
☐	Index	Mac	Model	SoftVersion	Ip	Ext	Status
☐	1	00:a8:59:01:02:09	X7	1.12.3	172.16.12.118	1	OnLine

Mac: the Mac address of the connected device

Model: connected device model information

Software version: software version number of connected device

IP: IP address of the connected device

Ext: extension number assigned by connected devices

Status: connected device is online or not online

Registration number: displays host registration number information

Delete: the device can be deleted

Move to managed: after moving the device to managed, the device can be managed

Managed Extension Information										
AddDeleteReProvisionRebootAdd to GroupMove To UnManaged										
☐	Index	Extension Name	Mac	Model	SoftVersion	Ip	Ext	Group	Status	Registration Number
☐	1		00:a8:59:01:02:09	X7	1.12.3	172.16.12.118	1		OnLine	2;
										Edit

Managed extension information:

The unmanaged extension list can be added to the managed extension list, and the device can be restarted, upgraded and added to the group.

Extension name: name of the management device

Mac: the Mac address of the management device

Model: the model name of the management device

Software version: the software version number of the management device

IP: the IP address of the management device

Ext: manages the device assignment extension number

Grouping: manages the grouping into which devices are added

Status: the management device is currently online or not online

Registration number: displays host registration number information

Edit: name, Mac address, extension, grouping of editable management devices

New: can manually add management device, including name, Mac address (required), extension number, grouping information

Delete: delete the management device

Upgrade: perform upgrade operation on management equipment

Restart: restart the management device

Add to group: adds a device to a group

Move to unmanaged: this device cannot be managed after a move

Hot spot grouping information:

Hot spot grouping, add grouping success, dial the group number, the number to join the group will ring

Name: the name of the group

Number: group number, dial this number, group number ring

Edit: group information is edited

New: add new groups

Delete: deletes grouping

2.2.3 An extension to upgrade

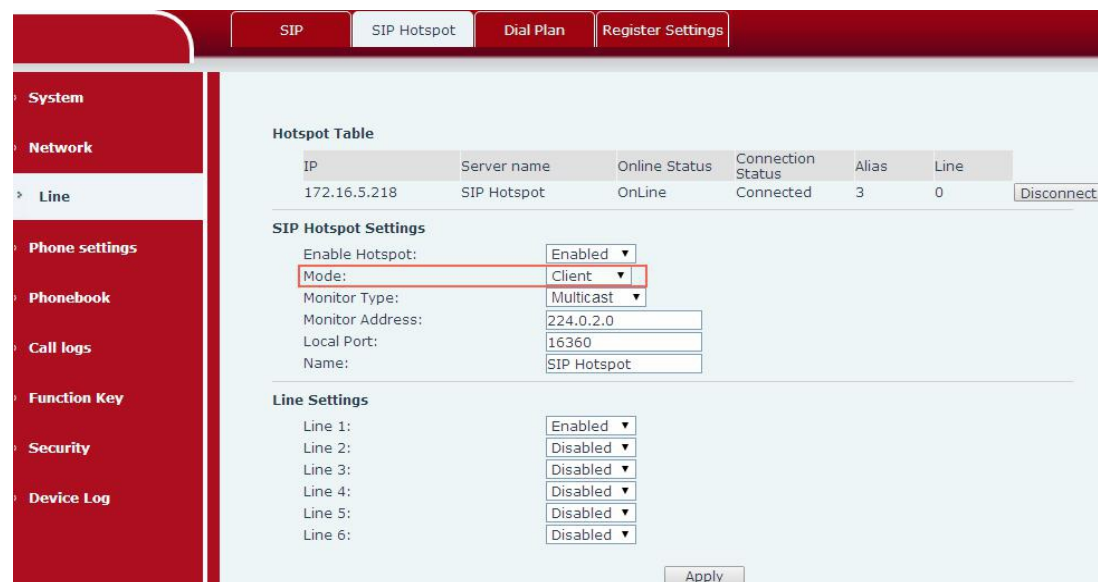
Management device upgrade operation, the need to enter the upgrade server URL, click confirm can go to the server download version upgrade.

The URL of the upgrade server is shown in the following figure:



2.3 SIP Hot Client Settings

If an X6 telephone set functions as a SIP hotspot client, no SIP account needs to be set. The telephone set will automatically obtain and configure a SIP account. On the SIP Hotspot tab page, set Mode to Client. The values of other options are the same as those of the hotspot.



The server address is the address of the SIP hotspot. The display name is automatically distinguished, as shown in the following figure.

The hotspot list displays the hotspot that the telephone set connects to. IP indicates that the hotspot IP address is 172.16.5.218 and Line indicates that hotspot telephone set 0 is connected. To call the telephone set functioning as the SIP hotspot, call 0. The local telephone set can choose whether to connect to the hotspot telephone set. You can click Disconnect next to the hotspot list to disconnect from the hotspot telephone set. See the figure below.

On the SIP Hotspot tab page, set Enable Hotspot as Disabled and then the line registration information of the SIP hotspot client connecting to the hotspot will be cleared. When the telephone set functioning as the SIP hotspot is suspended, the line registration information will not be cleared.

SIP **SIP Hotspot** Dial Plan Register Settings

System
Network
Line
Phone settings
Phonebook
Call logs
Function Key
Security
Device Log

No Registration

SIP Hotspot Settings

Enable Hotspot: Disabled
Mode: Client
Monitor Type: Multicast
Monitor Address: 224.0.2.0
Local Port: 16360
Name: SIP Hotspot

Line Settings

Line 1: Enabled
Line 2: Disabled
Line 3: Disabled
Line 4: Disabled
Line 5: Disabled
Line 6: Disabled

Apply

After suspension, the line registration information about the SIP hotspot client will be cleared. See the figure below.

SIP **SIP Hotspot** Dial Plan Register Settings

System
Network
Line
Phone settings
Phonebook
Call logs
Function Key
Security
Device Log

Line: SIP1

Register Settings >>

Line Status: Inactive
Server Address:
Server Port: 5060
Authentication User:
Authentication Password:
Username:
Display name:
Activate: ☐

Realm:
SIP Proxy Server Address:
Proxy Server Port: 5060
Proxy User:
Proxy Password:
Backup Proxy Server Address:
Backup Proxy Server Port: 5060
Server Name:

Basic Settings >>
Codecs Settings >>
Advanced Settings >>
SIP Global Settings >>

Apply

Note:

If multiple SIP hotspots are enabled on a network, the monitor address segments of the hotspot telephone sets must be distinguished. The monitor address of the telephone set functioning as the SIP hotspot client must be consistent with the monitor address of the hotspot to be connected to. Both a hotspot or a hotspot client can call an external line number. A hotspot can transfer a call within the group. A hotspot client can only conduct basic calls.

After the configuration of a SIP hotspot or hotspot client is modified, the modification takes effect immediately on X5S and X6 series telephone sets and no restart is required. However, the X3S/X4 and H series telephone sets must be restarted for the modification to take effect.