

## How to add a 3<sup>rd</sup> party SIP phone in CallManager Version 5.x

Before getting started, here is the relevant lab setup information used in this document.

CallManager IP: 10.88.229.74

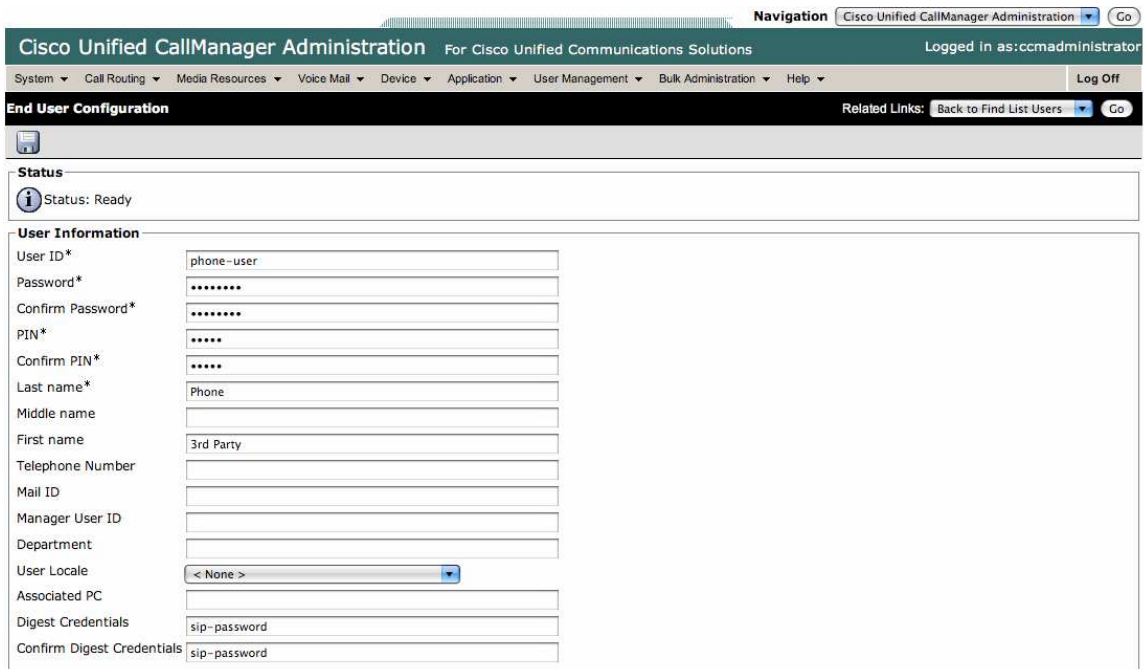
Digest user id: phone-user

Digest user credential: sip-password

DN configured: 60009

3<sup>rd</sup> Party Phone: X-Lite Ver 3.0. (www.xten.com)

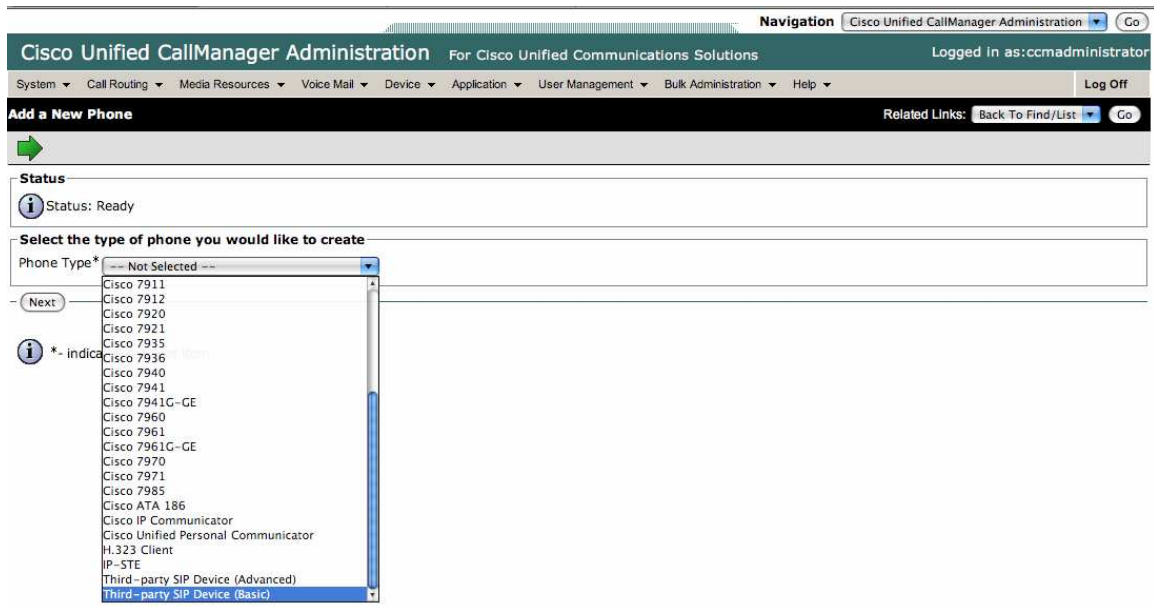
1. Create a user for authentication information. If you already have users configured, you can use that user. From Admin Toolbar, select User management and then add a user. You will need to specify a password in Digest Credentials field. This password will be used latter. Note: Digest Credential is independent of Password field. Both of them can be different.



The screenshot shows the Cisco Unified CallManager Administration web interface. The page title is "Cisco Unified CallManager Administration" and "For Cisco Unified Communications Solutions". The user is logged in as "ccmadministrator". The "End User Configuration" section is active, showing a "Status" of "Ready". The "User Information" section contains various fields:

|                            |              |
|----------------------------|--------------|
| User ID*                   | phone-user   |
| Password*                  | *****        |
| Confirm Password*          | *****        |
| PIN*                       | *****        |
| Confirm PIN*               | *****        |
| Last name*                 | Phone        |
| Middle name                |              |
| First name                 |              |
| Telephone Number           | 3rd Party    |
| Mail ID                    |              |
| Manager User ID            |              |
| Department                 |              |
| User Locale                | < None >     |
| Associated PC              |              |
| Digest Credentials         | sip-password |
| Confirm Digest Credentials | sip-password |

2. After creating the user, Select Phone> Add a new device. On the next page select 3<sup>rd</sup> party SIP (Basic) as the phone type.




3. Specify all the options as you would for a regular phone with special attention to following settings:
  - a. MAC Address can be any dummy mac address or MAC address of the device. In general try to use Device's actual Mac when possible, though it does not matter. CallManager just needs a unique MAC address to identify the phone.
  - b. Select "Third-party SIP Device (Basic)" in phone button template.
  - c. Device Security Profile: Third-Party SIP Device Basic.
  - d. SIP profile: Standard SIP Profile.
  - e. Digest User: the user created in step 1.

System ▾ Call Routing ▾ Media Resources ▾ Voice Mail ▾ Device ▾ Application ▾ User Management ▾ Bulk Administration ▾ Help ▾ Log Off

**Phone Configuration** Related Links: [Back To Find/List](#)

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**Status**  
 Status: Ready

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**Phone Type**  
**Product Type:** Third-party SIP Device (Basic)  
**Device Protocol:** SIP

**Device Information**

|                           |   |
|---------------------------|---|
| MAC Address*              | <input type="text" value="012345678912"/>                   |
| Description               | <input type="text" value="SEP012345678912"/>                |
| Device Pool*              | <input type="text" value="Default"/>                        |
| Phone Button Template*    | <input type="text" value="Third-party SIP Device (Basic)"/> |
| Common Phone Profile*     | <input type="text" value="Standard Common Phone Profile"/>  |
| Calling Search Space      | <input type="text" value="&lt; None &gt;"/>                 |
| AAR Calling Search Space  | <input type="text" value="&lt; None &gt;"/>                 |
| Media Resource Group List | <input type="text" value="&lt; None &gt;"/>                 |
| Location*                 | <input type="text" value="Hub_None"/>                       |
| Owner User ID             | <input type="text" value="&lt; None &gt;"/>                 |

Ignore Presentation Indicators (internal calls only)

**Protocol Specific Information**

|                                  |  |
|----------------------------------|--|
| Presence Group*                  | <input type="text" value="Standard Presence group"/>                     |
| MTP Preferred Originating Codec* | <input type="text" value="711ulaw"/>                                     |
| Device Security Profile*         | <input type="text" value="Third-party SIP Device Basic - Standard SIP"/> |
| Rerouting Calling Search Space   | <input type="text" value="&lt; None &gt;"/>                              |
| SUBSCRIBE Calling Search Space   | <input type="text" value="&lt; None &gt;"/>                              |
| SIP Profile*                     | <input type="text" value="Standard SIP Profile"/>                        |
| Digest User                      | <input type="text" value="phone-user"/>                                  |

Media Termination Point Required  
 Unattended Port

**MLPP Information**

|             |   |
|-------------|---|
| MLPP Domain | <input type="text" value="&lt; None &gt;"/> |
|-------------|---|

Hit Save and then add a line on the next page, just like a regular phone.

4. Here is how the config should look after a phone line has been added.

Navigation Cisco Unified CallManager Administration Go

**Cisco Unified CallManager Administration** For Cisco Unified Communications Solutions Logged in as: ccmadministrator

System Call Routing Media Resources Voice Mail Device Application User Management Bulk Administration Help Log Off

**Phone Configuration** Related Links: Back To Find/List Go

**Status**  
 Status: Ready

**Association Information**

Modify Button Items

- 1 Line [1] - 60009 (no partition)
- 2 Line [2] - Add a new DN
- 3 Privacy
- 4 None

----- Unassigned Associated Items -----

**Phone Type**

**Product Type:** Third-party SIP Device (Basic)  
**Device Protocol:** SIP

**Device Information**

Registration: Unknown  
 IP Address: Unknown  
 MAC Address\*: 012345678912  
 Description: SEP012345678912  
 Device Pool\*: Default  
 Phone Button Template\*: Third-party SIP Device (Basic)  
 Common Phone Profile\*: Standard Common Phone Profile  
 Calling Search Space: < None >  
 AAR Calling Search Space: < None >  
 Media Resource Group List: < None >  
 Location\*: Hub\_None  
 Owner User ID: < None >

Ignore Presentation Indicators (internal calls only)

**Protocol Specific Information**

Presence Group\*: Standard Presence group  
 MTP Preferred Originating Codec\*: 711ulaw  
 Device Security Profile\*: Third-party SIP Device Basic - Standard SIP  
 Rerouting Calling Search Space: < None >  
 SUBSCRIBE Calling Search Space: < None >  
 SIP Profile\*: Standard SIP Profile  
 Digest User: phone-user

Media Termination Point Required  
 Unattended Port

5. At this point the Phone has been setup in CallManager. The 3<sup>rd</sup> party phone needs to be configured now with the following information.
  - a. Username= DN of the line. (60009)
  - b. Password = digest credential created in step 1. (sip-password)
  - c. Auth. Username= username of the user in step 1. (phone-user)
  - d. Proxy: IP address of Primary CallManager server.
  - e. If device supports multiple proxies, you can put secondary server information there.
  
6. After installing the X-Lite softphone client, go to Account configuration using the small arrow pointing downwards.



7. Next hit the add button.



8. In the next window configure the following information at minimum.
  - a. User Name: DN configured in CCM.
  - b. Password: The digest credential configured for user in step 1.
  - c. Authorization user Name: Username of the user created in step 1.
  - d. Domain: IP Address of CallManager server.
  - e. Check “Register with Domain and receive incoming calls”
  - f. Select Proxy under “Send outbound via:” and type in Callmanager IP.

**Properties of Account1** [X]

Account | Voicemail | Topology | Presence | Advanced

**User Details**

|                         |              |
|-------------------------|--------------|
| Display Name            | Phone User   |
| User name               | 60009        |
| Password                | ●●●●●●●●●●   |
| Authorization user name | phone-user   |
| Domain                  | 10.88.229.74 |

**Domain Proxy**

Register with domain and receive incoming calls

Send outbound via:

domain

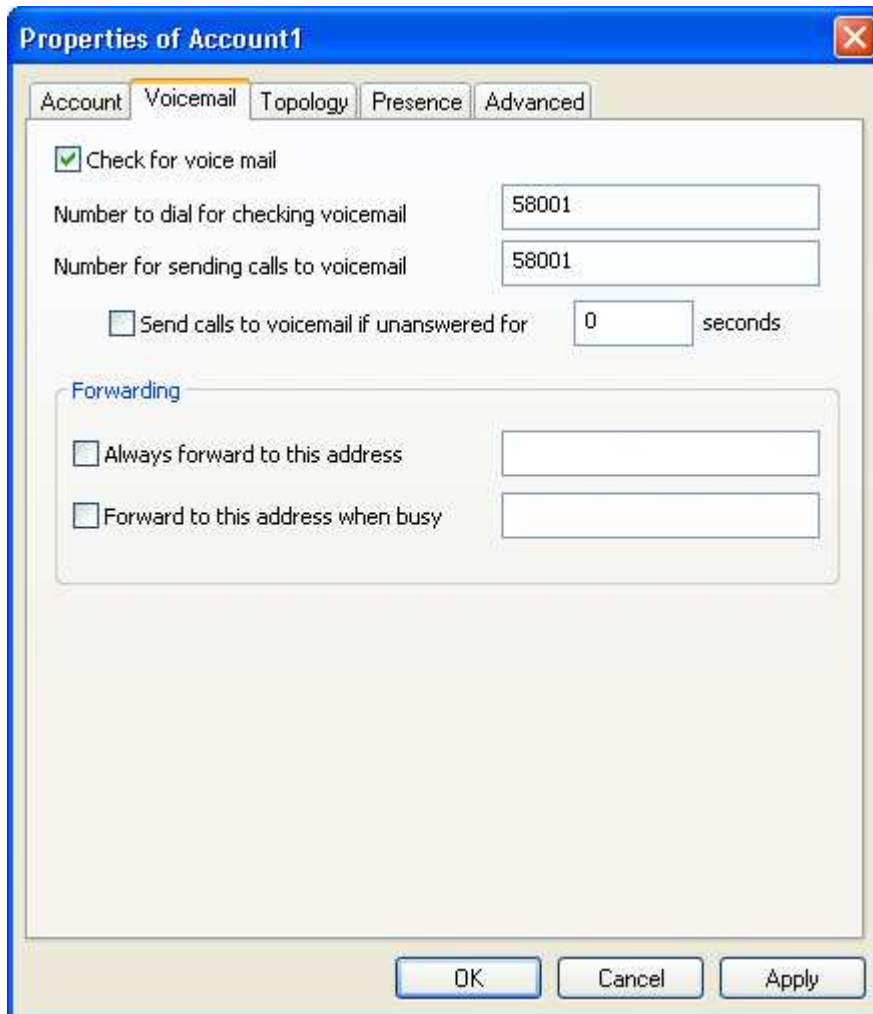
proxy    Address: 10.88.229.74

target domain

Dialing plan: #1\a\a.T;match=1;prestrip=2;

OK    Cancel    Apply

9. Select the Voicemail Tab and type in the Voicemail box Pilot number.



10. Hit ok and then close. The phone should register with CallManager at this time.