I. Introduction

This CUCM 8.0.3a Integration Guide provides general instructions for integration of the **VOIP-500 Series Phone** with a Cisco Call Manager installation. It is recommended to read this instruction set completely before starting any installation. For detailed VOIP-500 Series Phone setup instructions, please consult the **VOIP-500 Series Phone Manual**.

Talk-A-Phone's VOIP-500 Series Phone has tested compatible with Cisco UCM 7.1 and UCM 8.6. The Cisco Compatible logo signifies that Talk-A-Phone's product has undergone interoperability testing by Talk-A-Phone together with Cisco and a third-party test house based on testing criteria set by Cisco. Talk-A-Phone is solely responsible for the support and warranty of its product. Cisco makes no warranties, express or implied, with respect to Talk-A-Phone's product or its interoperation with the listed Cisco product(s) and disclaims any implied warranties of merchantability, fitness for a particular use, or against infringement.

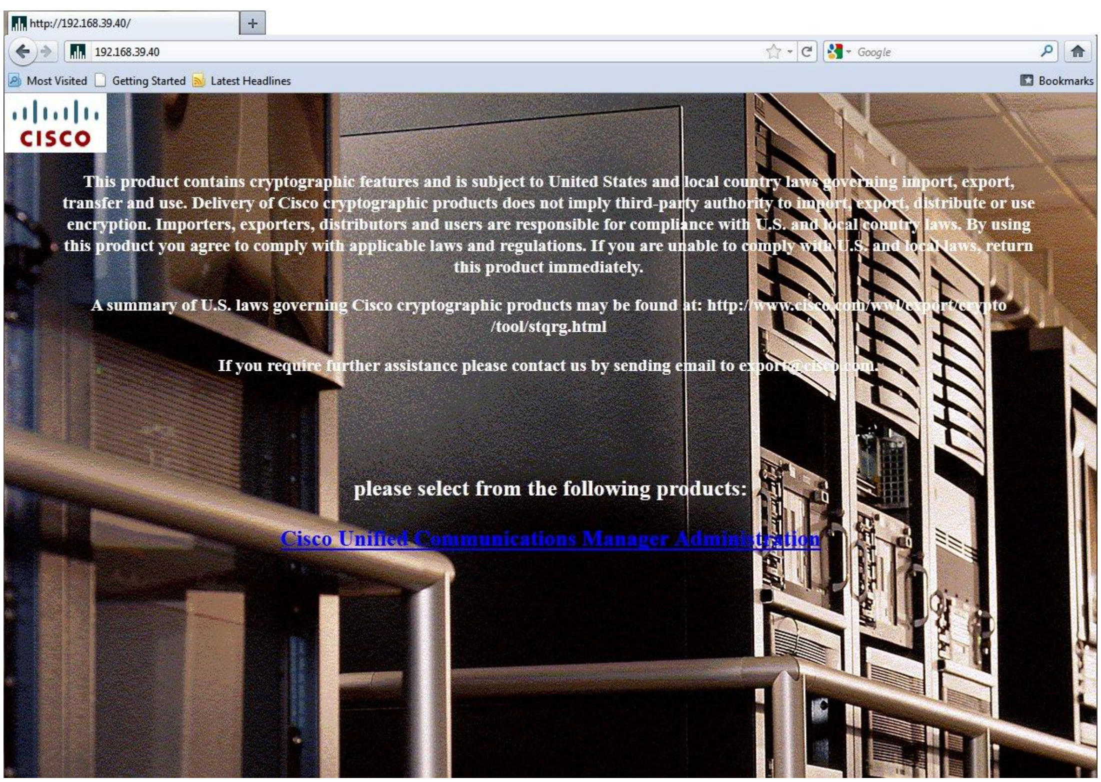
II. Prerequisites

- Cisco Unified Communications Manager, version 8.0 pre-installed
- CM and TFTP services licensed and enabled on CUCM
- SIP Device Licensing for Third-party SIP (Basic) devices
- Network access to the CUCM Server, **VOIP-500 Series Phones** and all network services (SIP, TFTP, HTTP, FTP, DNS, RTP/SRTP)

III. CUCM Basic Configuration

Basic instructions for integrating a **VOIP-500 Series Phone** with a Cisco Unified Call Manager 8.0.3a are included. Advanced setup of CUCM features is outside the scope of this document.

1. Using a web browser, enter the IP address (or FQDN if configured) of the CUCM Server in the address bar:



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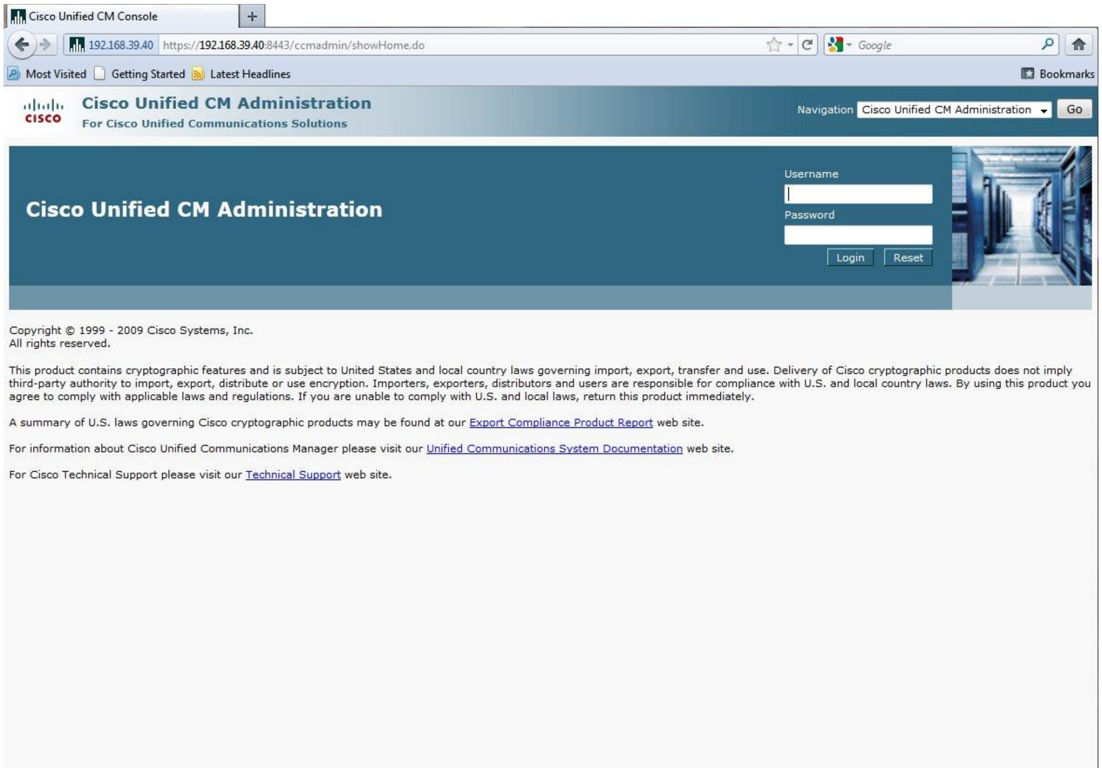
2. Login to Cisco Unified CM Administration:



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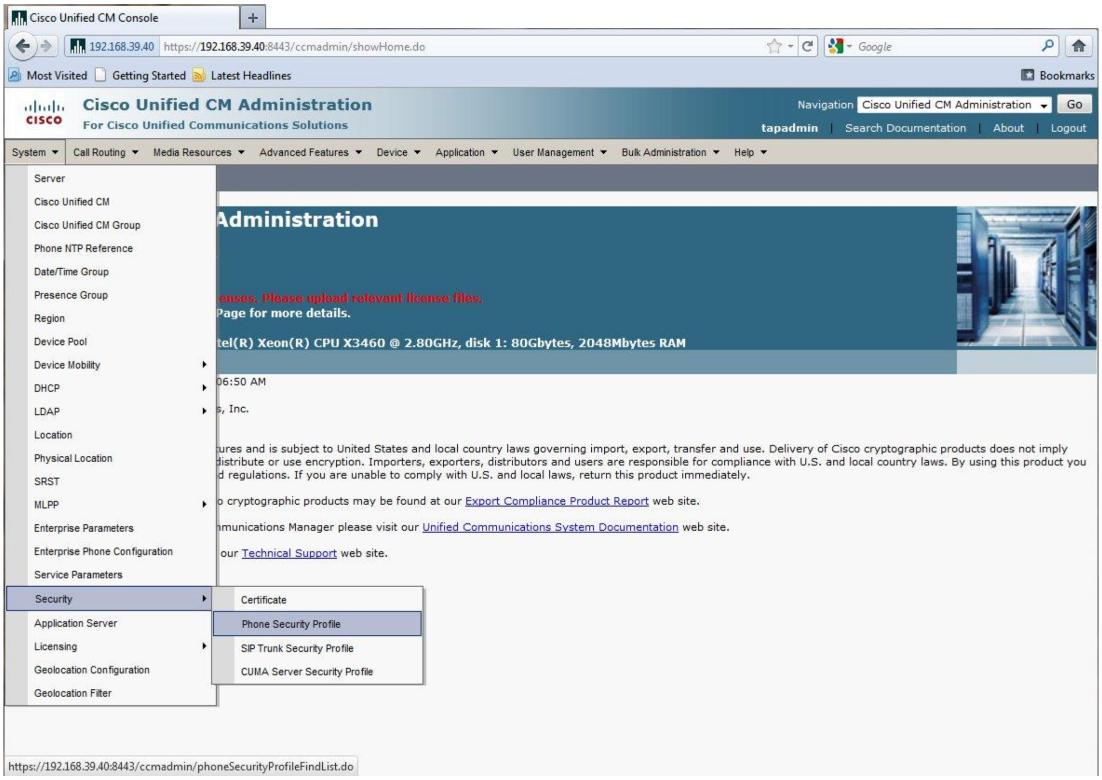
3. A Phone Security Profile with Digest Authentication enabled is required for VOIP-500 integration. Begin by selecting **System > Security > Phone Security Profile** in the CUCM menu:



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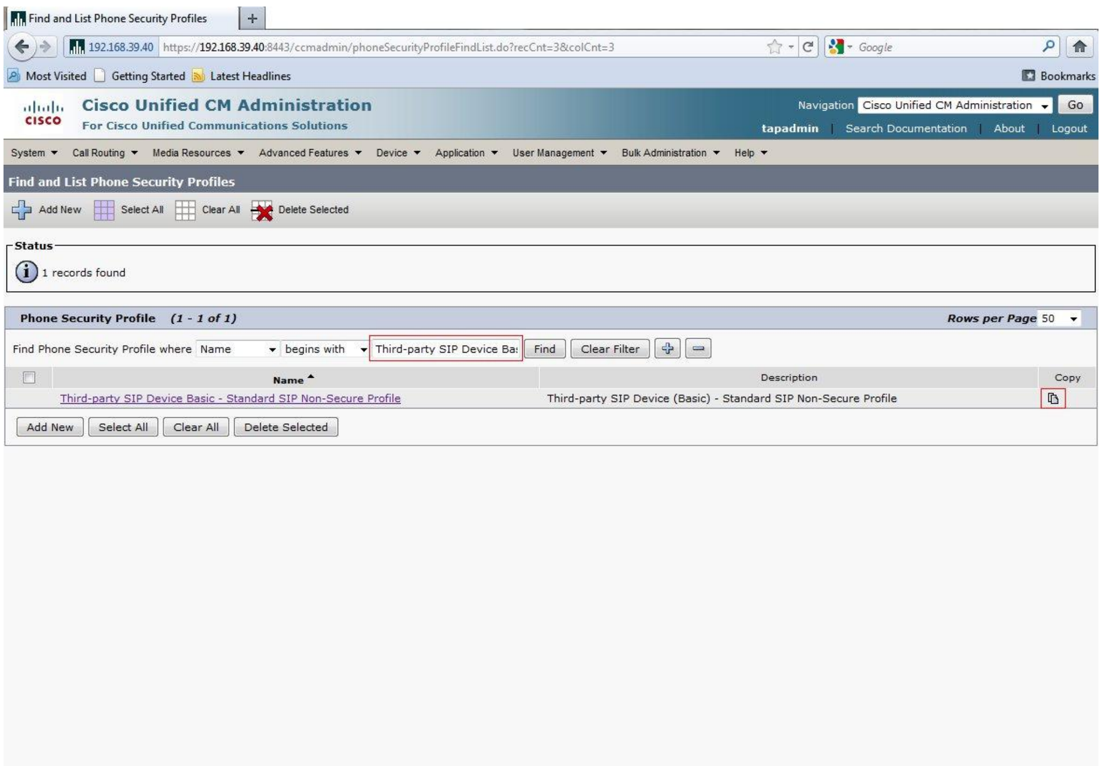
4. In the Find Phone Security Profile field, enter **Third-party SIP Device Basic** and press **Enter**.

   You should note a single entry for **Third-party SIP Device Basic – Standard SIP Non-Secure Profile**.

   Click the **Copy** button to the right of this entry.



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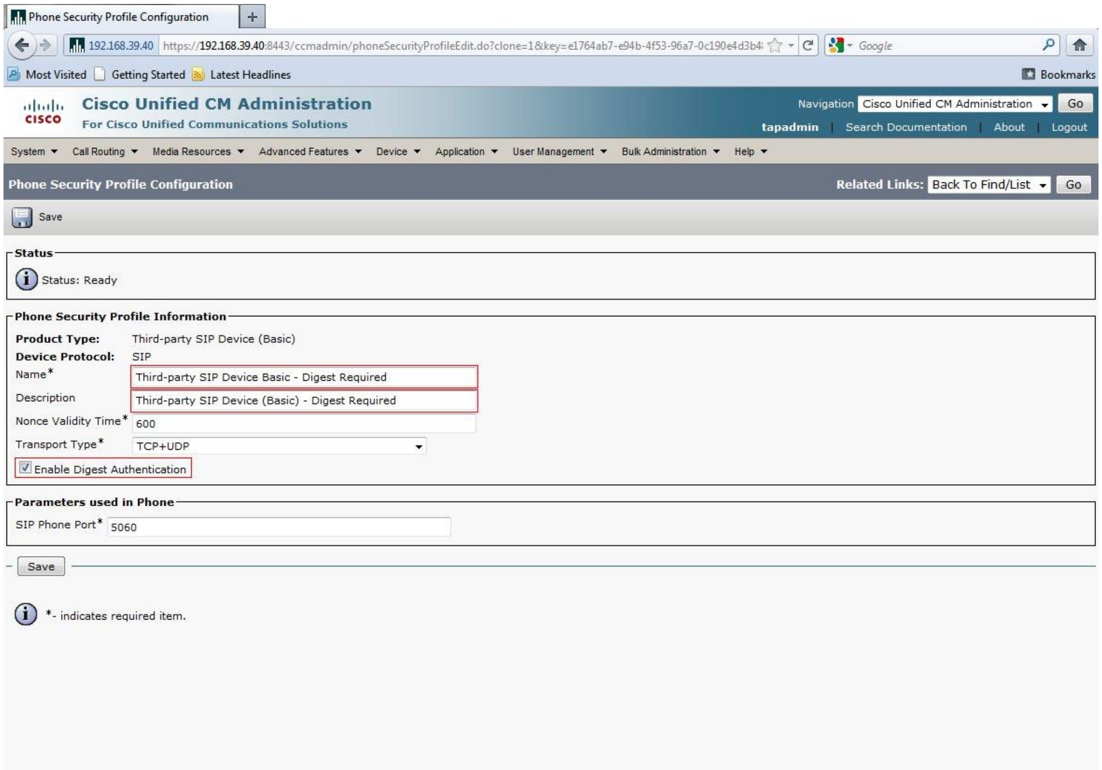
5. Modify the new Phone Security Profile Name to **Third-party SIP Device Basic – Digest Required**.

Modify the Description to **Third-party SIP Device (Basic) – Digest Required**.

Check the **Enable Digest Authentication** box, and click **Save**.



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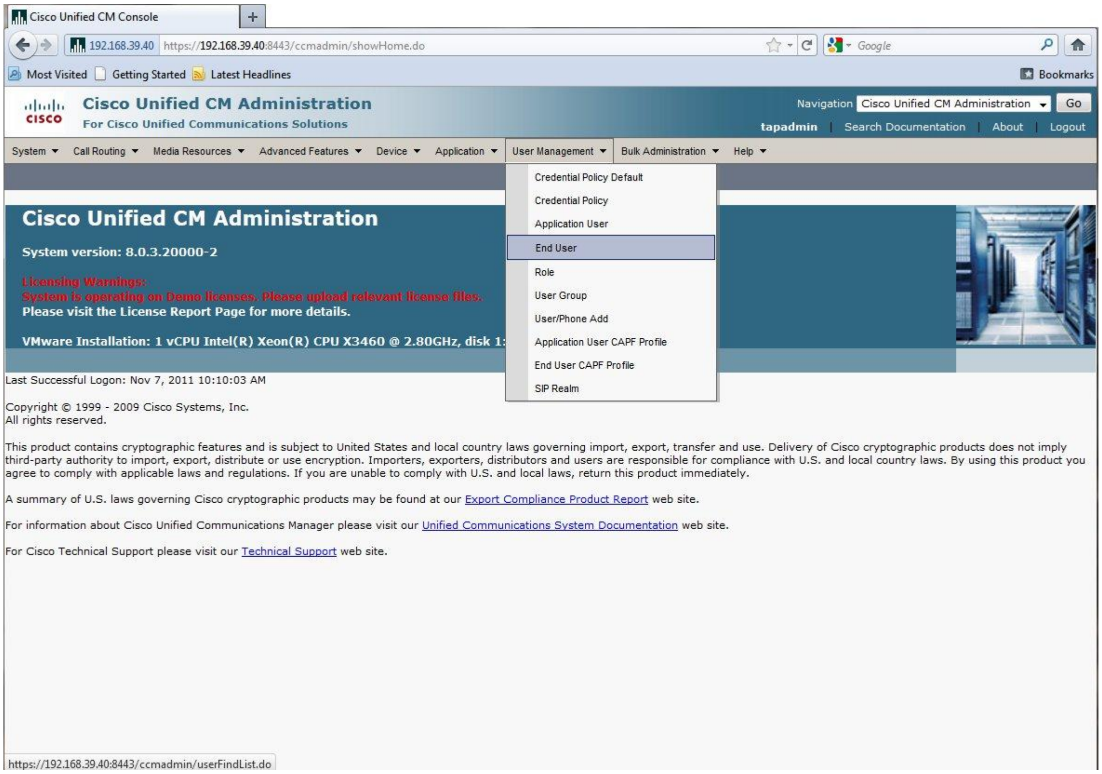
6. Each VOIP-500 Series Phone should have a unique End User. In the CUCM main menu, select **User Management > End User**.



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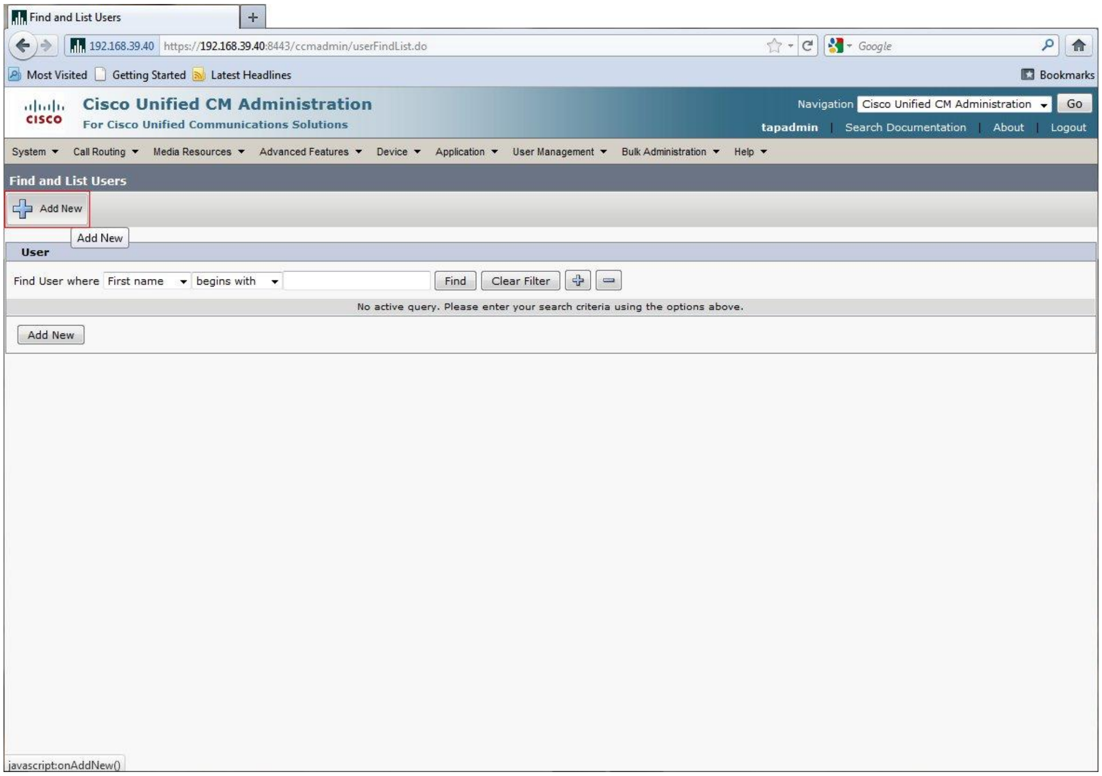
7. Create a new End User. First, click **Add New**.



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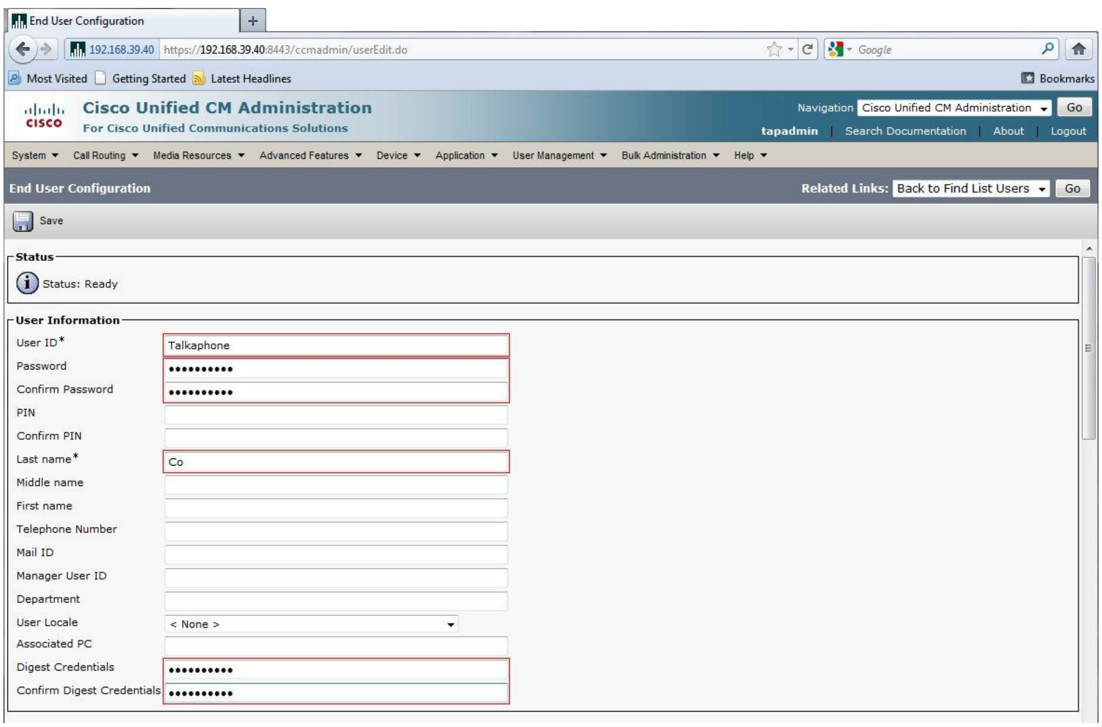
8. Enter the required fields to create a new End User:

User ID: A unique username for each **VOIP-500 Series Phone**.

Password: A unique password for each **VOIP-500 Series Phone**.

Last name: (required by CUCM).

Digest Credentials: (required by **VOIP-500 Series Phone**) It is recommended to match the Digest Credentials with the Password for manageability.



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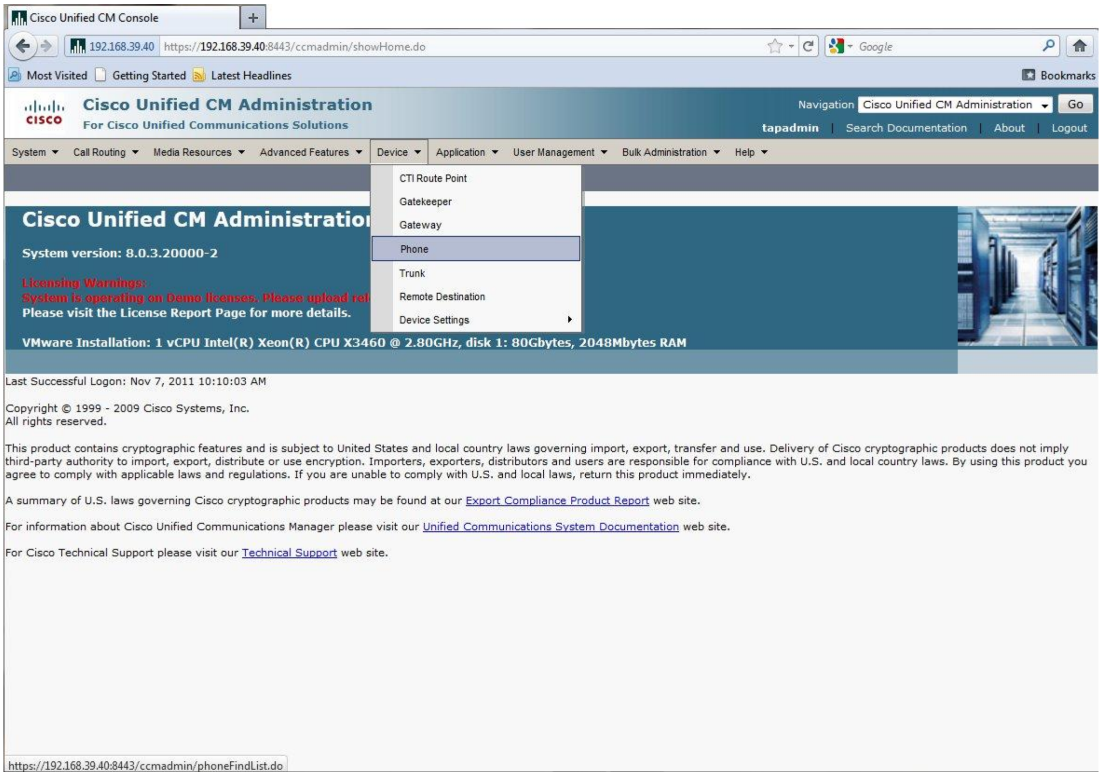
Next, add each **VOIP-500 Series Phone** as a Device in CUCM. In the CUCM main menu, select **Device > Phone**.



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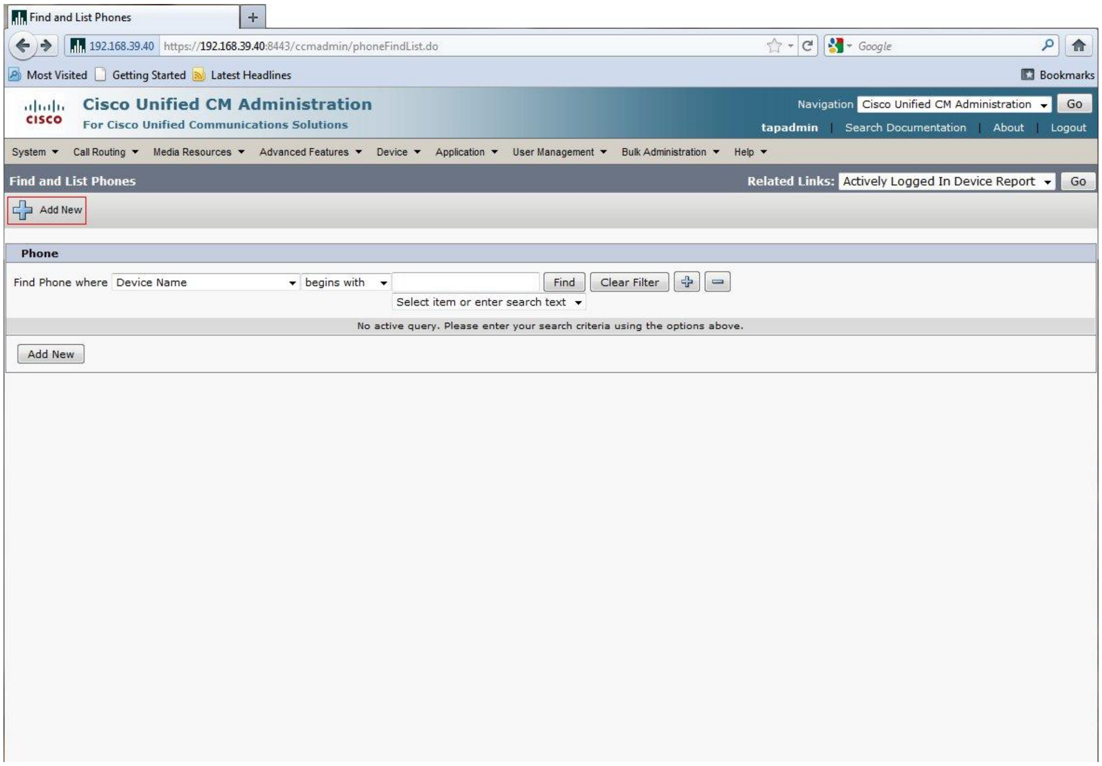
9. Click **Add New**.



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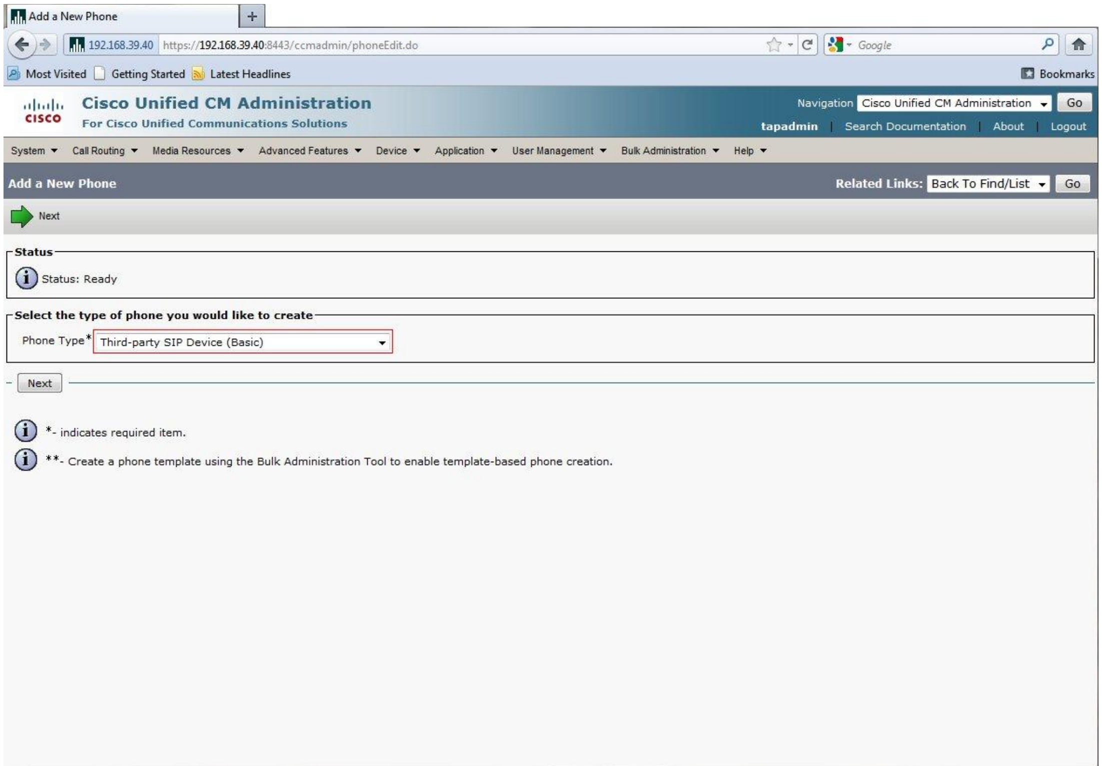
10. Select **Third-party SIP Device (Basic)** from the Phone Type menu.



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11. In the Phone Configuration page enter the following fields. Then click **Save**.

MAC Address: H/W address of VOIP-500

Description: (Auto-filled)

Phone Button Template: **Third-party SIP Device (Basic)**

Common Phone Profile: **Standard Common Phone Profile**

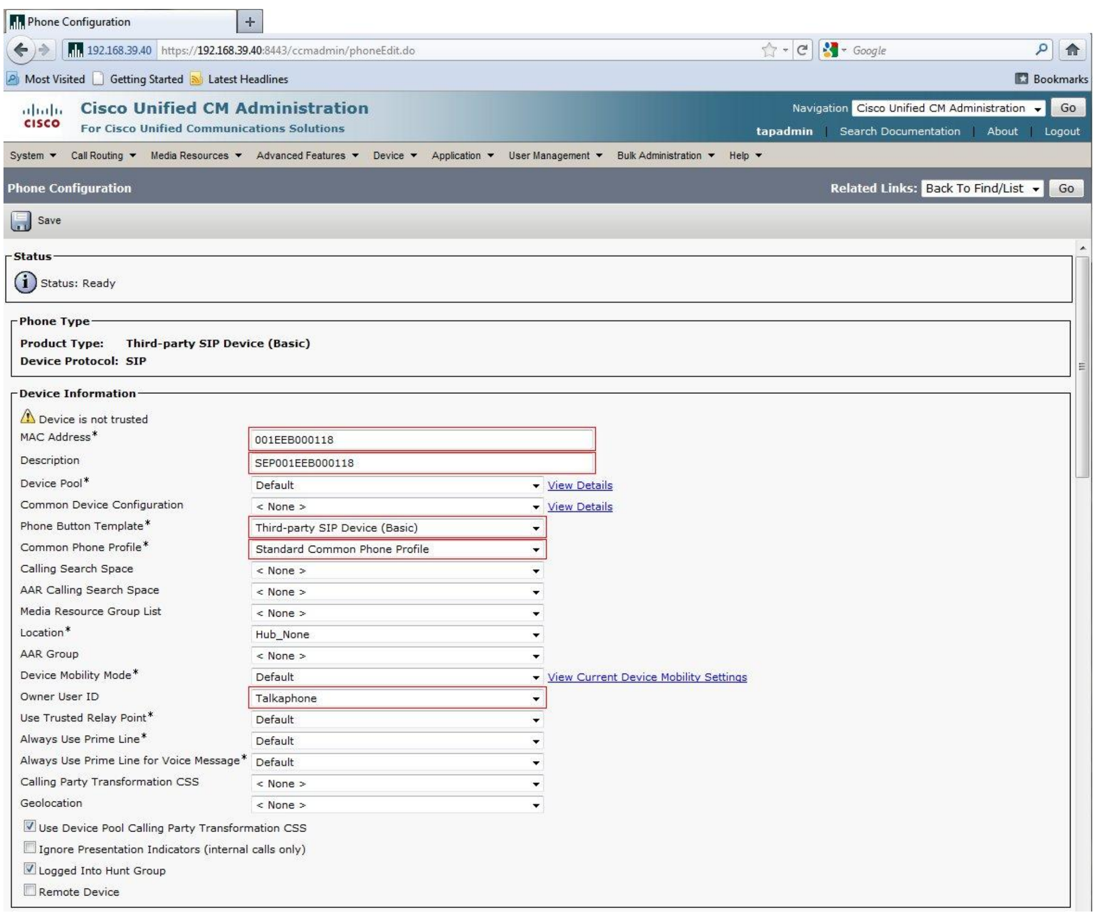
Owner User ID: Enter the User ID created in Step 8

Presence Group: **Standard Presence Group**

Device Security Profile: **Third-party SIP Device Basic – Digest Required**

SIP Profile: **Standard SIP Profile**

Digest User: Enter the User ID created in Step 8



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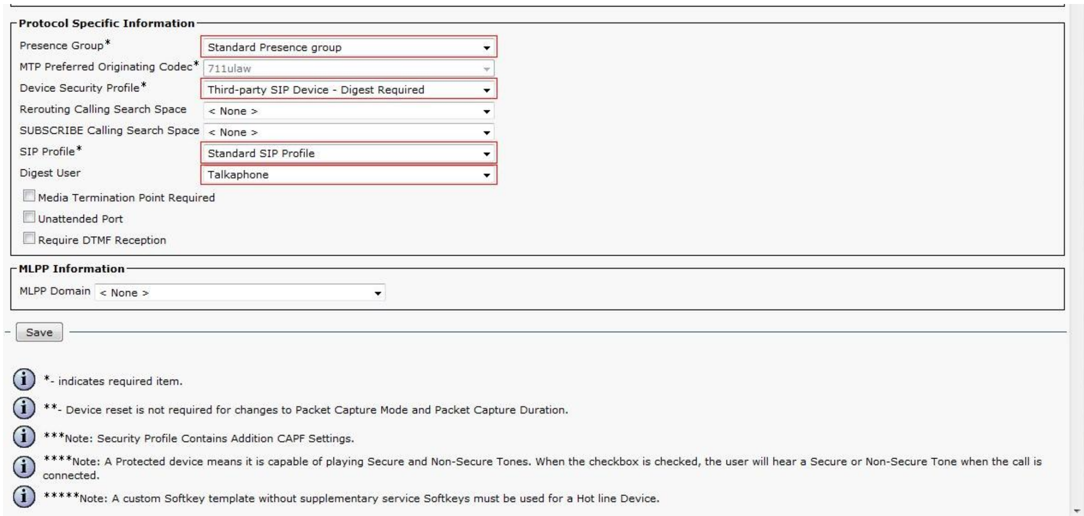
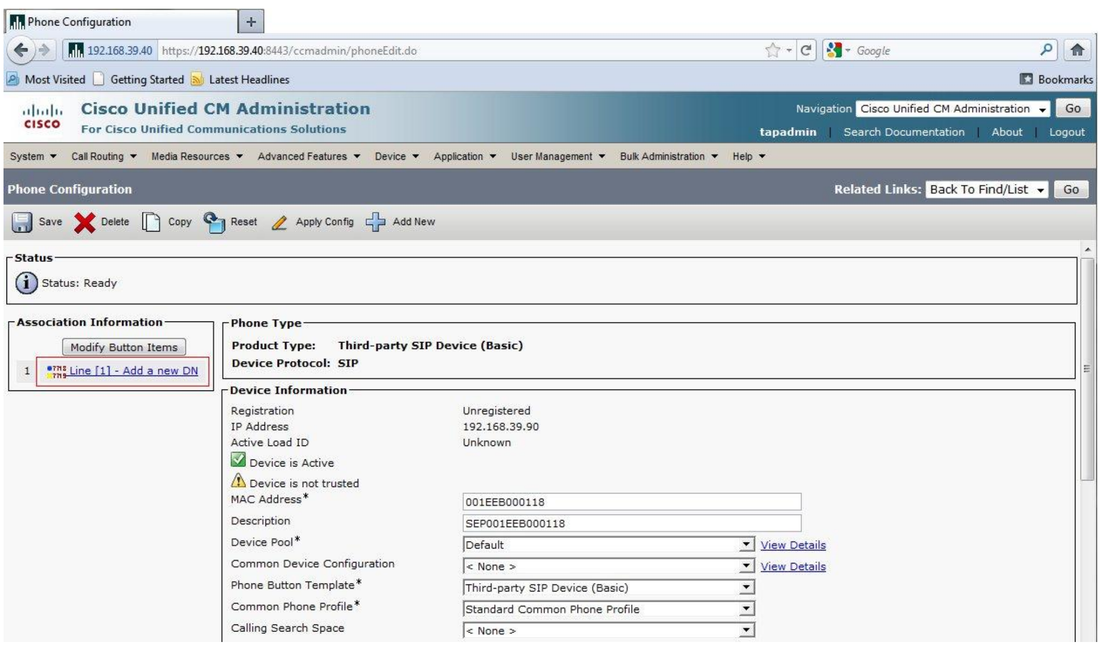


12. Each device needs to have a unique Directory Number. Click **Line [1] – Add a new DN**.



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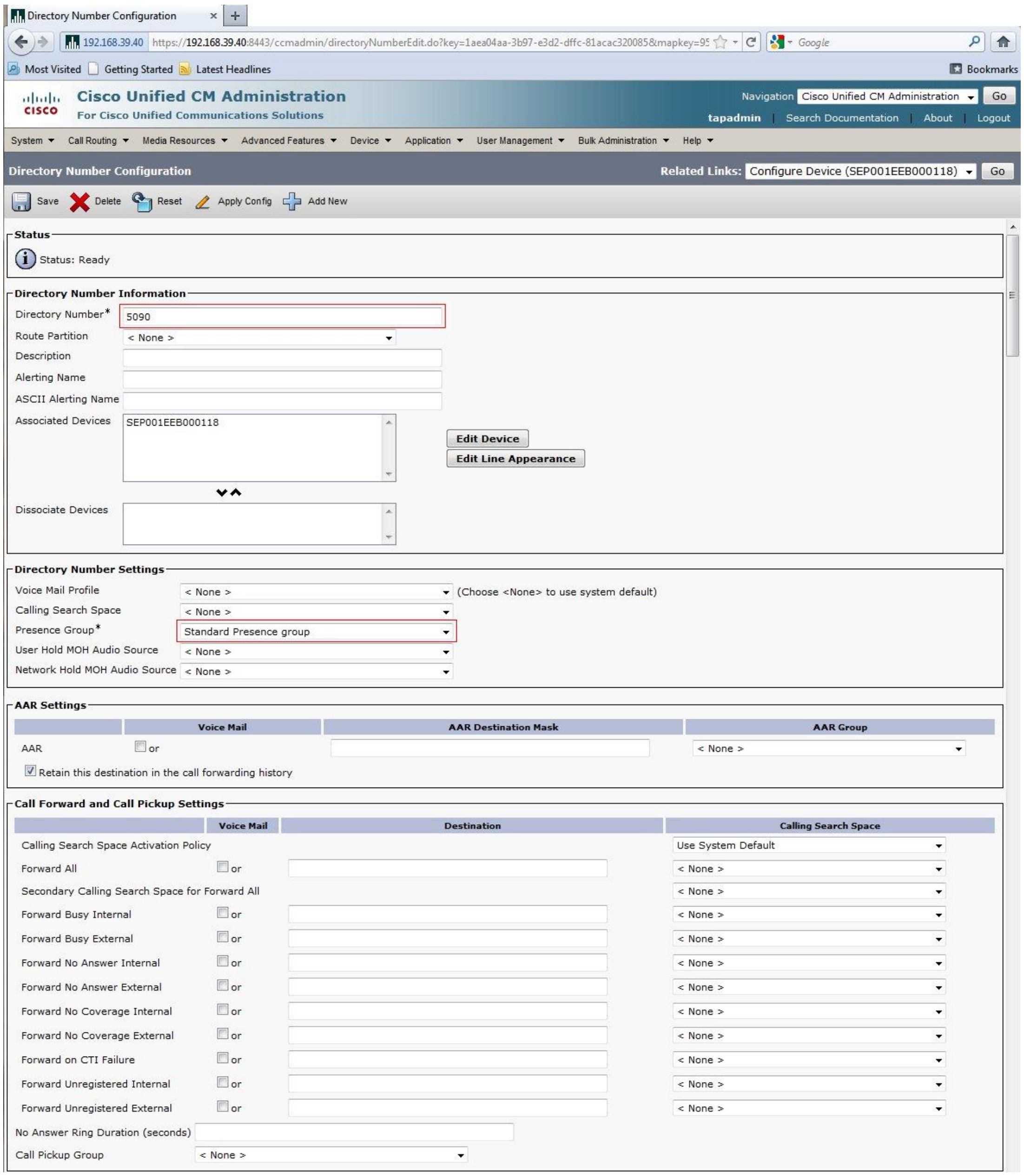
13. On the Directory Number Configuration page, enter the following fields. Then click **Save**.

Directory Number: Enter a Unique extension for the phone
Presence Group: **Standard Presence Group**
Maximum Number of Calls: **1**
Busy Trigger: **1**



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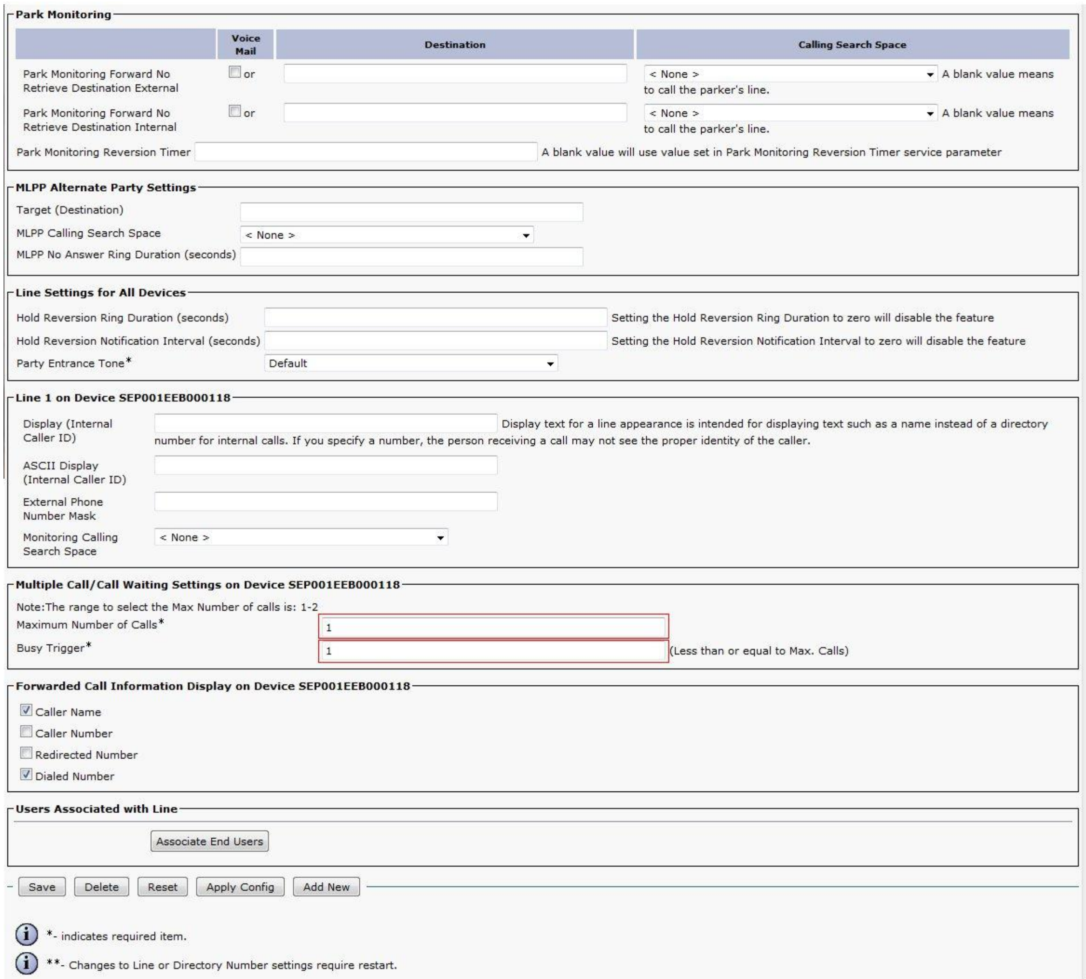

14. If adding multiple **VOIP-500 Series Phones**, repeat Steps 6-14 for each device.

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IV. VOIP-500 Series Phone Configuration

1. Using a web browser, enter the IP address of the **VOIP-500 Series Phone** that you are programming. Login to the device with the configured Username and Password.

2. In the VOIP-500 main menu, select **Network > SIP Settings**.

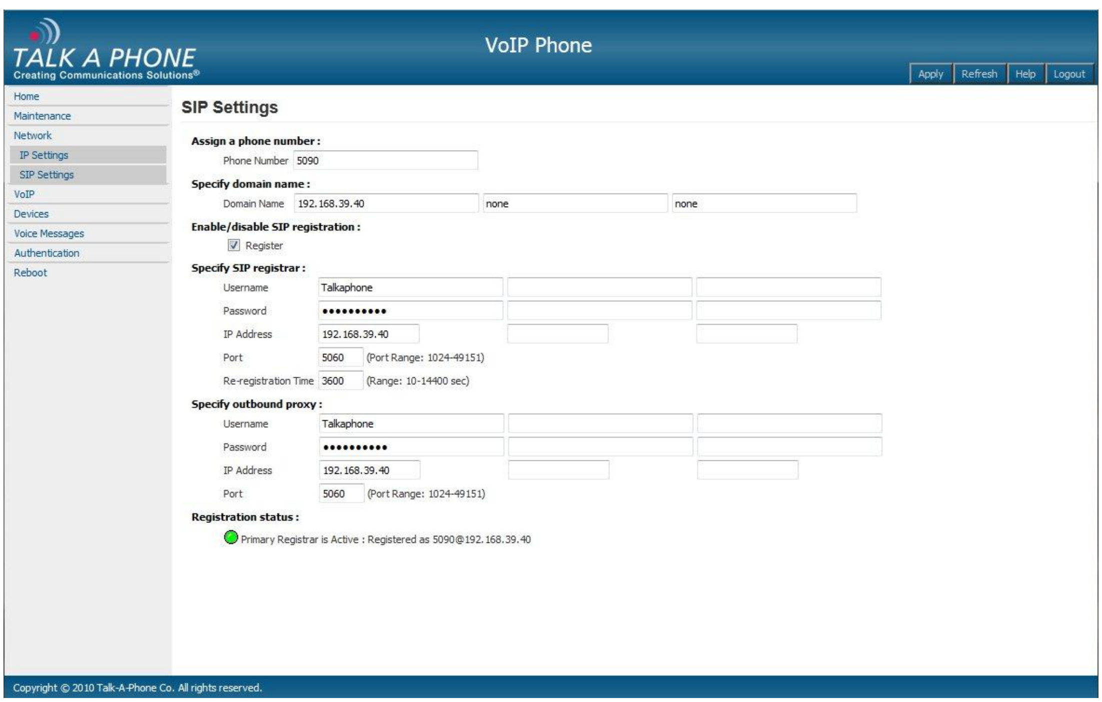
3. Enter the following fields on the **SIP Settings** page. Then click **Apply**.
   Assign a phone number:
   Phone Number: Enter the DN created in Step III-14

   Specify domain name:
   Domain Name: Enter the IP address of the CUCM Server

   Enable/disable SIP registration:
   Register: Checked

   Specify SIP registrar:
   Username: Enter the User ID create in Step III-8
   Password: Enter the Digest Credentials created in Step III-8
   IP Address: Enter the IP address of the CUCM Server
   Port: (default: 5060)
   Re-registration Time: (default: 3600)

   Specify outbound proxy:
   Username: Enter the User ID create in Step III-8
   Password: Enter the Digest Credentials created in Step III-8
   IP Address: Enter the IP address of the CUCM Server
   Port: (default: 5060)



4. Repeat steps 1-4 for any additional **VOIP-500 Series Phones**.

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