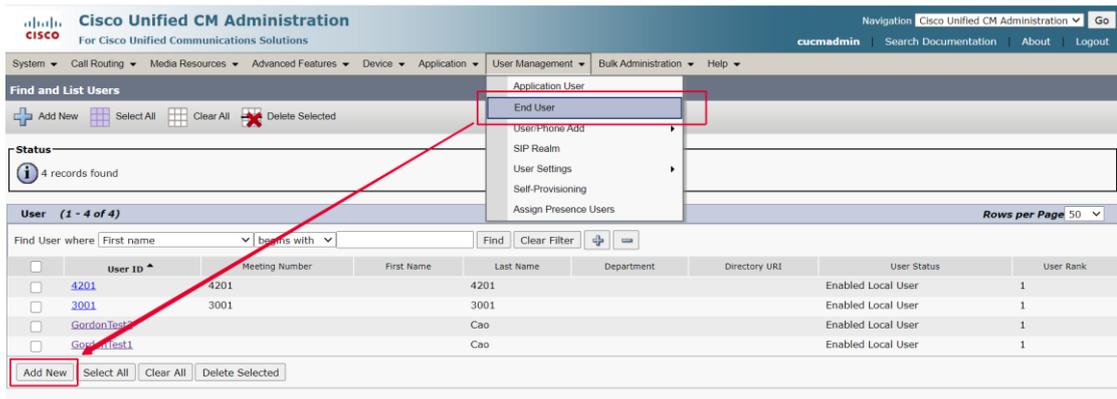# Register accounts on CUCM Platform

Note：Before the process, please reset the phone to factory default settings.

1. Create User

1) Go to User Management-> End User, press Add New button.

2) Input User information.

   a. **User ID**: User name in CUCM, used for Register Name in phone web interface for registering account.

   b. **Password**: Password for user in CUCM.

   c. Last Name: Required.

   d. **Digest Credentials**: Used for register Password in phone web interface for registering account.

2. Create Device

1) Go to Device-> Phone, press Add New button.

2) Select the type of phone you would like to create. We choose Third-party SIP Device (Advanced), then press Next.

P.S. Advanced for 8 lines, Basic for 1 line only.
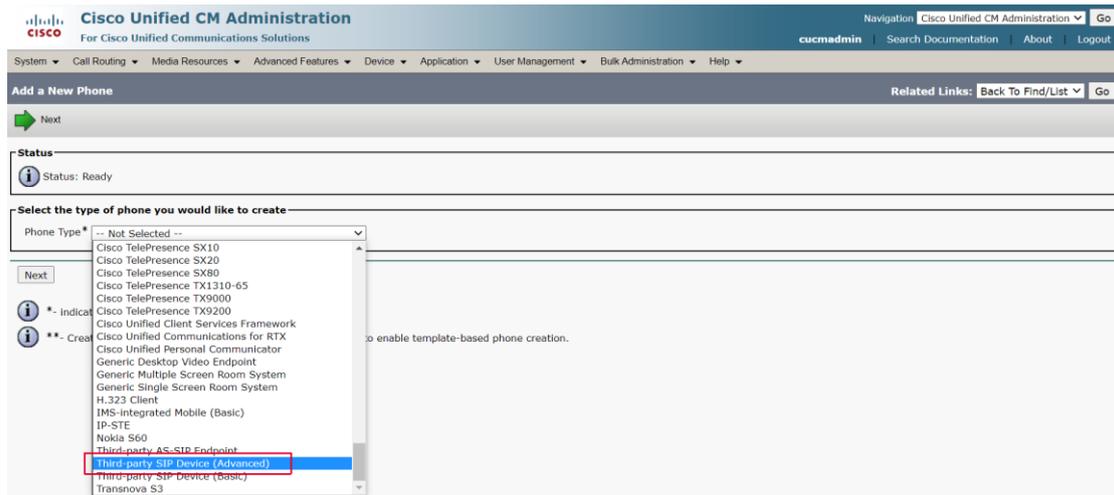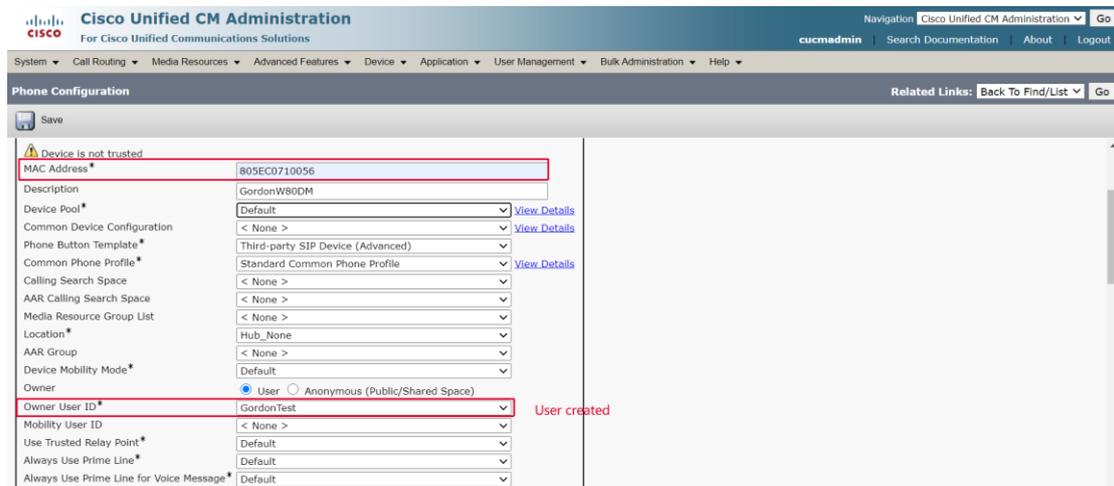
3) Input User information.

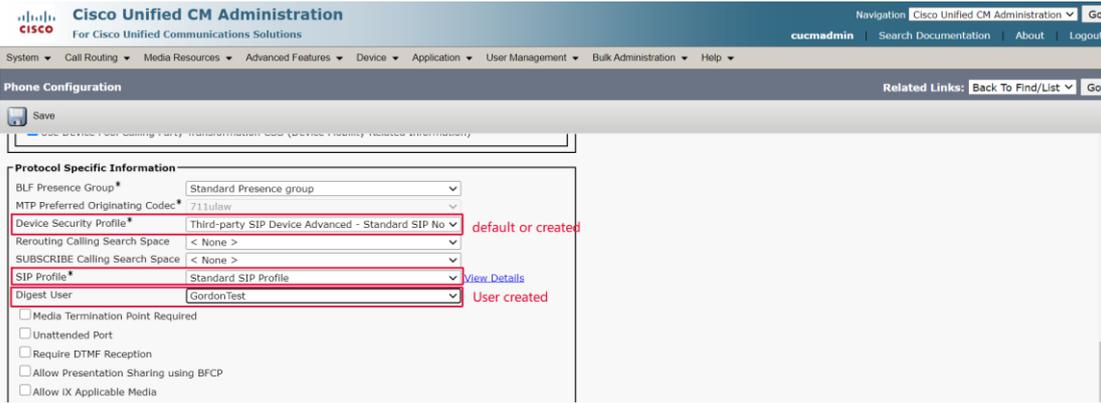   a. MAC Address of device.

    b. **Owner User ID**: Select the User you created at Step 1, to
       associate device with User.

    c. **Device Security Profile**: Choose a default or customized profile.
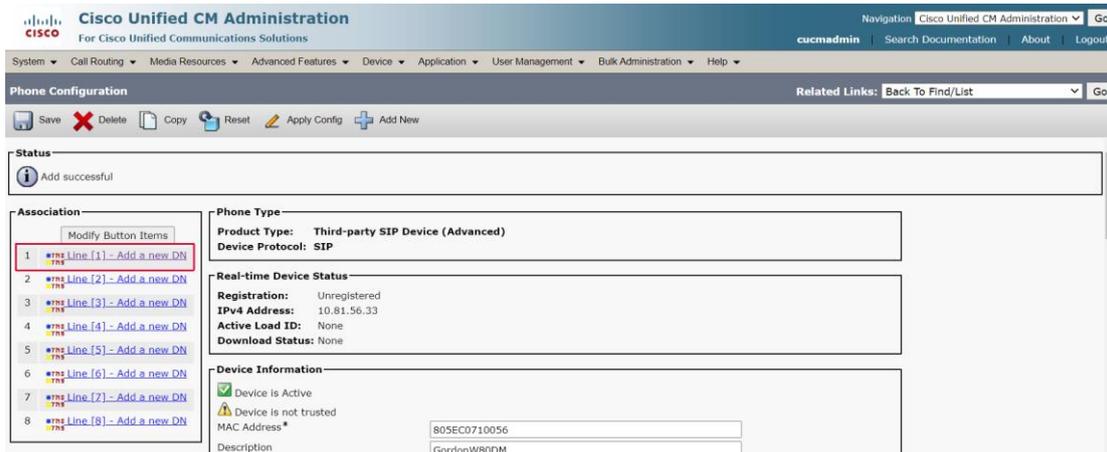
    d. SIP Profile: Standard SIP Profile.

    e. **Digest User**: Select the User you created at Step 1, ensure
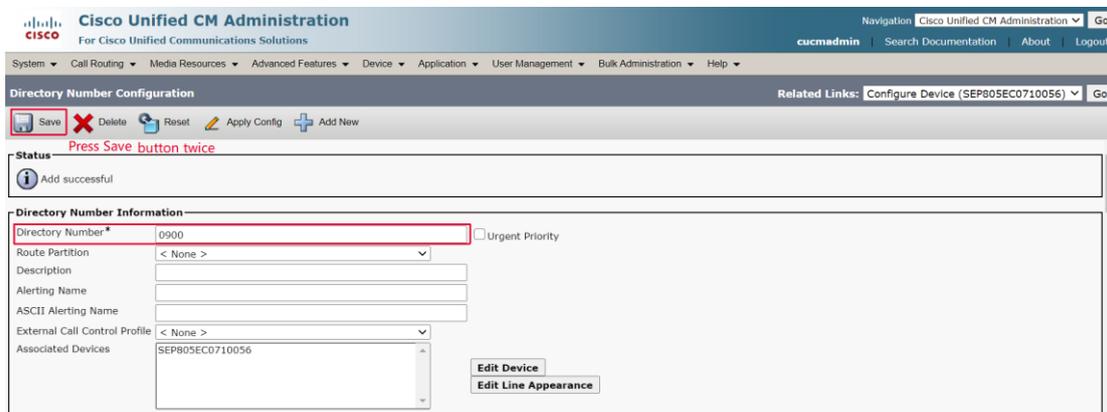   successful authentication during registration.

3. Add Numbers

1) After creating device, press Line [1]-Add a new DN on the left side of this page.

2) Input a number you want, for registering next step.

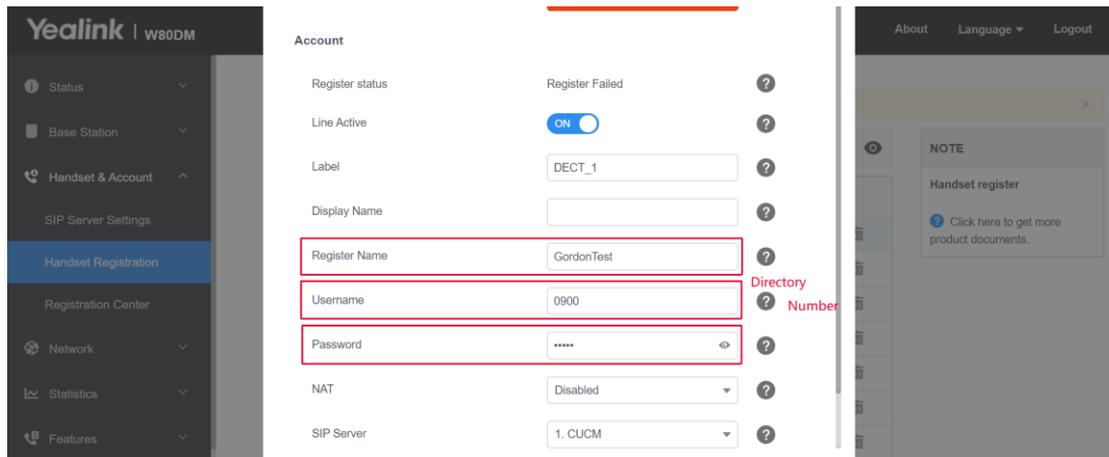P.S. Need to press Save button **twice** to update the Directory Number.

4. Register on web Interface

0) Choose **TCP** transport type.

1) **Register Name**: Input the **Digest User** in Step 1.

2) **Username**: Input the **Directory Number** in Step 3.

3) **Password**: Input the **Digest Credentials** in Step 1.

If the device we created is Multi-Cell product like W80DM, we need to add more than 8 lines to assign them to different DECT handsets. **The steps below are to add and register more than 8 lines in W80DM.**
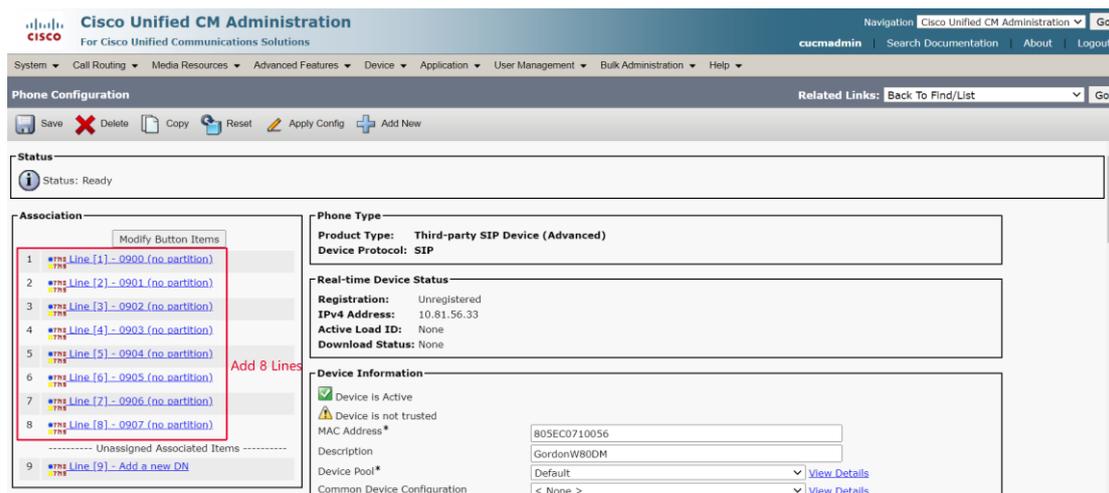
5. Create Additional User

Like in Step 1 before, we create a User named GordonTest_Attach.

6. Create Additional Device

Like in Step 2 before, we create a new device and associate the device

with User GordonTest_Attach steps below:

Note:

1) **Owner User ID**: Select the same **User ID as in Step 2**.

2) **Digest User**: Select the Additional User **created at Step 5**, ensure

   successful authentication during registration.

7. Add Numbers

After creating additional device, we can add new Directory Numbers on this device (not more than 8 lines), then register these lines in master device W80DM.

8. Configure the W80DM

Due to the limitation of CUCM, registration of more than 8 accounts with same IP Address and Source Port on the server is prohibited. We need configure parameters to modify the TCP source port.

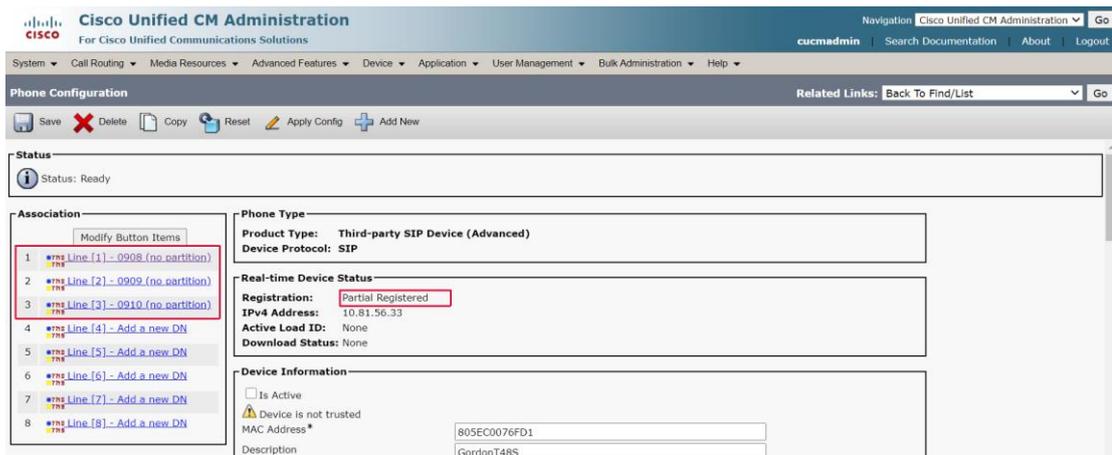*sip.tcp_connection_per_line.enable = 1* **[MUST]**

This parameter will use a random source port for each account and

it follows a "increment in range" rule: Increment in order within the configured range by the below parameters (both of permitted value ranges from 1024 to 65535).

sip.min_tcp_port =

It configures the minimum TCP port.

sip.max_tcp_port =

It configures the maximum TCP port.

sip.tcp_port_random_mode = 1 **[MUST]**

It configures the listening port mode.

0-random source port (non 506x), fixed ports (506x) carried in the Contact, Via header.

1-random source port (non 506x) and other ports (non 506x) carried in the Contact, Via header.

sip.tls_port_random = 1

Same as *sip.tcp_port_random_mode = 1*, but for TLS transport type.

After applying the parameter, the accounts will register with different source port. (Only for TCP transport type now)

9. Register on web Interface

1) **Register Name**: Input the **Additional User ID in Step 5**.

2) **Username**: Input the **Directory Number in Step 7**.

3) **Password**: Input the **Digest Credentials in Step 5**.

Then, we can have more than 8 lines in one W80DM.