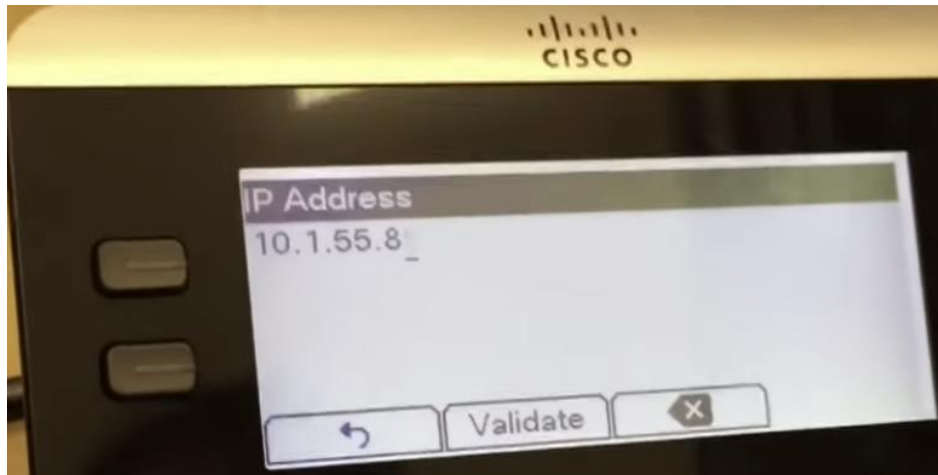


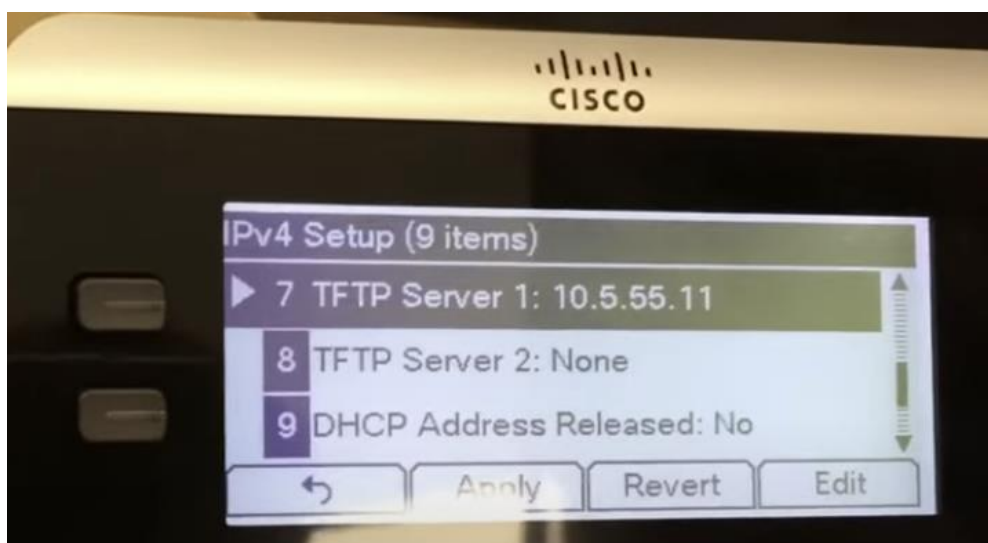
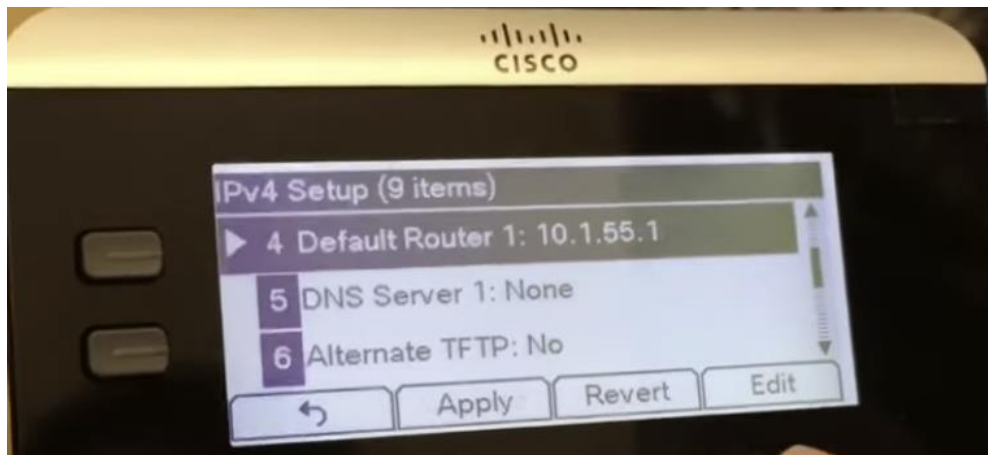
Configuration CISCO CP-7821 IP Phone

1- Setup DHCP – Disable & change IP address – use Edit



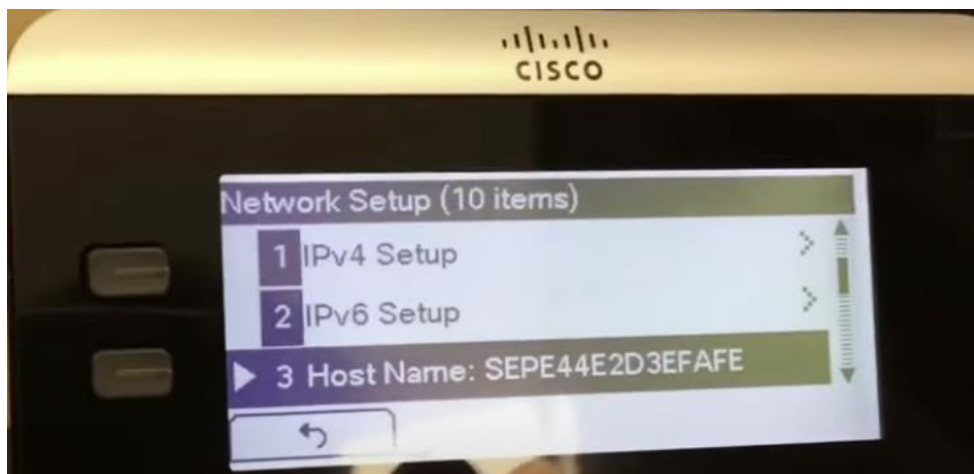
2- update new IP – Router – DNS server –TFTP server:





3- Hit Apply

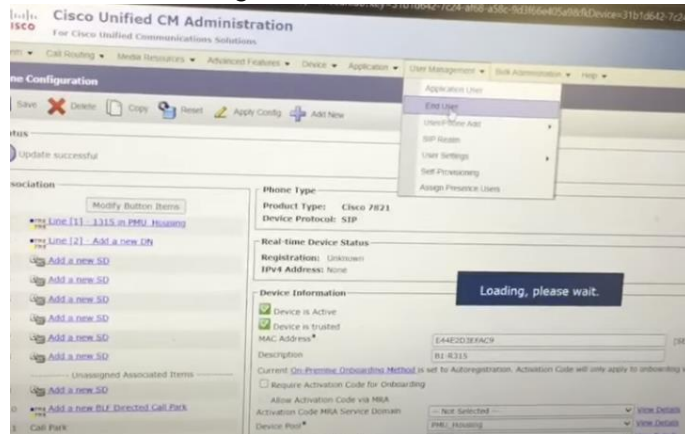
4- Get Hostname: MAC address



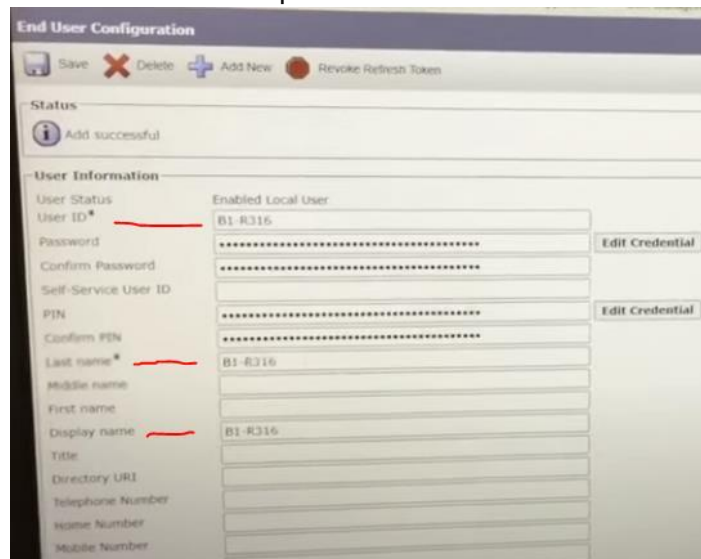
5- Go back and Register process- complete. This complete after reboot

6-From CISCO Unified CM Administration console:

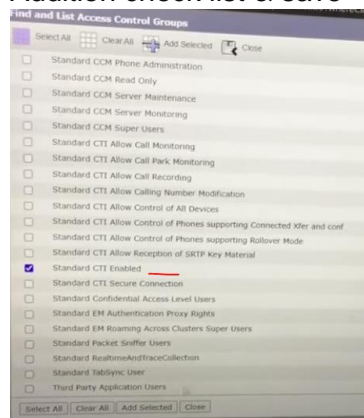
1- Go to User Manager – End User



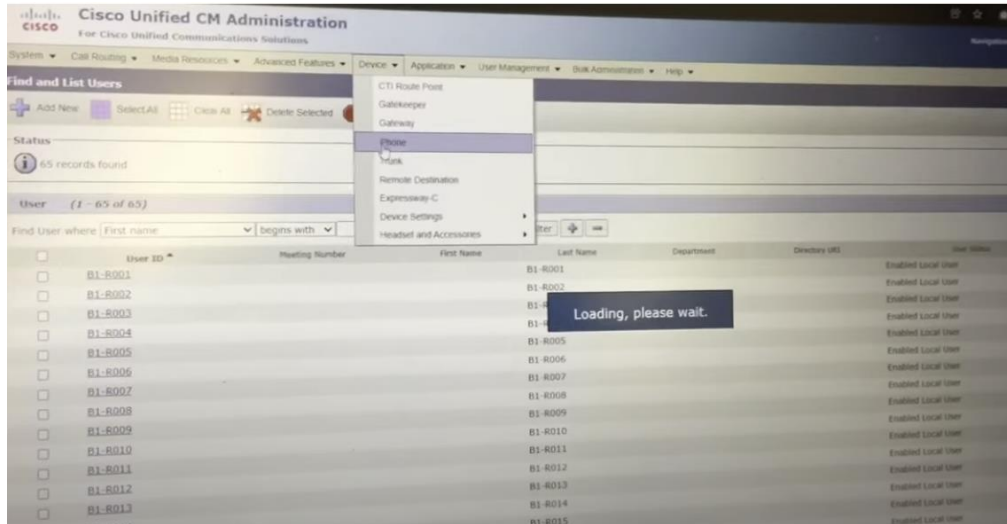
2- Click to Add – User- provide number



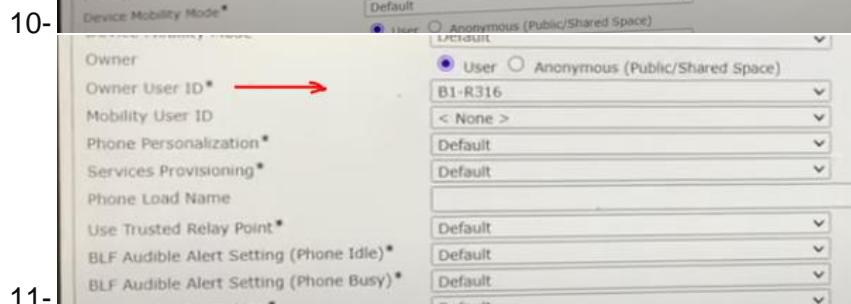
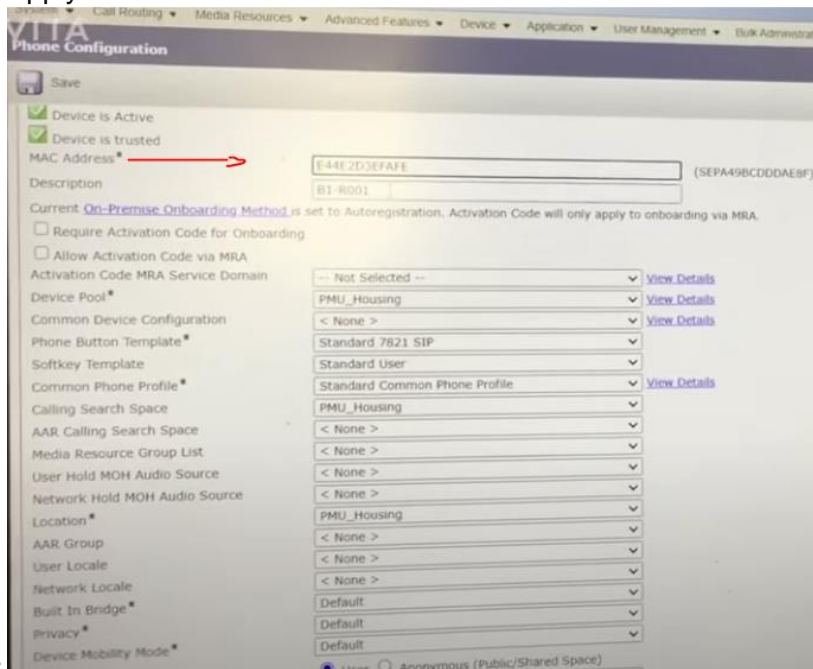
4- Addition check list & save



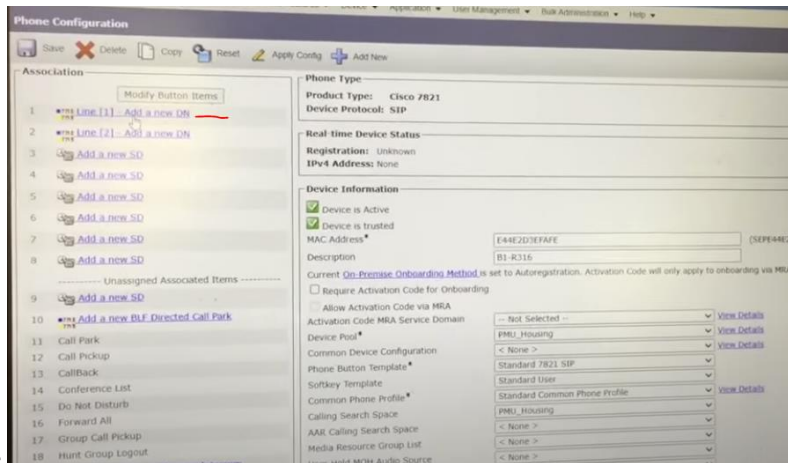
6- Go to Device – Phone



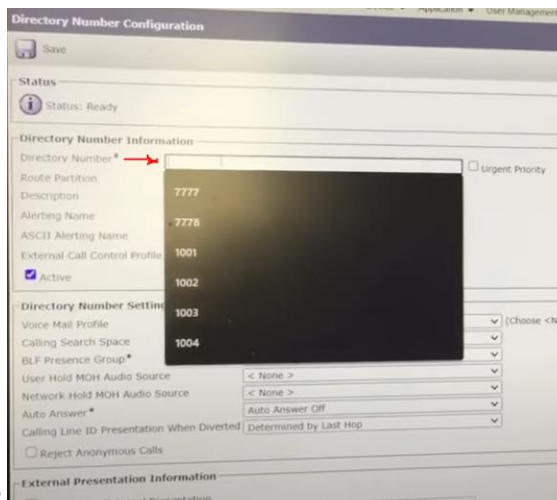
- 8-
- 9- Apply new MAC address & Owner user room - Save



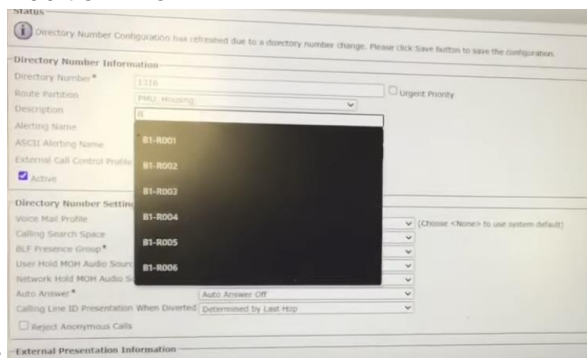
- 11-
- 12- Get Extension Number – go to Line



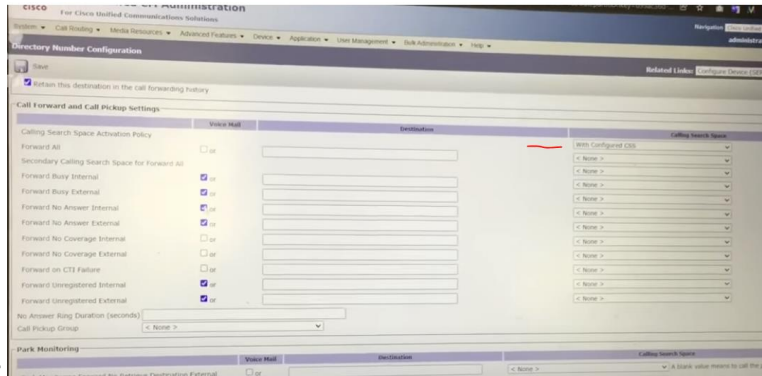
- 13-
- 14- Enter Extension



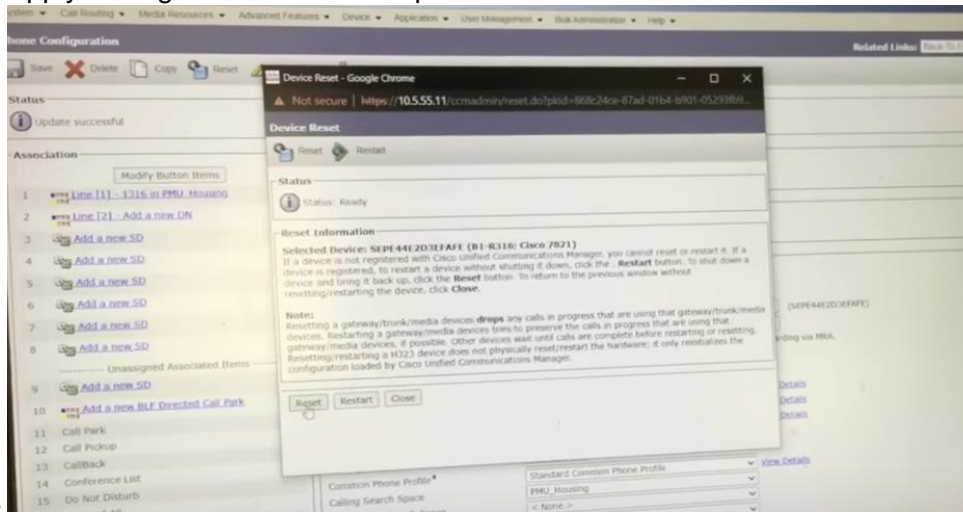
- 15-
- 16- Addition info



- 17-
- 18- Addition forward setting



- 19-
20- Apply Configure and Reset the phone



21-

1. **Hardware Requirements:**

- Cisco IP Phones: These are the devices used for making and receiving calls over the VOIP network. They connect to your network infrastructure.
- Cisco Unified Communications Manager (CUCM): This is the core software that manages the VOIP system, including call routing, user profiles, and more.
- Network Switches: You'll need network switches to connect your IP phones and other devices to the network.
- Optional: Cisco Voice Gateway for connecting your VOIP network to the traditional PSTN (Public Switched Telephone Network).

2. **Network Setup:**

- Connect your Cisco IP Phones to the network switches using Ethernet cables.
- Configure VLANs (Virtual Local Area Networks) if you want to separate voice and data traffic for better performance and security.
- Ensure that your network has sufficient bandwidth and Quality of Service (QoS) settings to prioritize voice traffic.

3. **Cisco Unified Communications Manager Setup:**

- Install and configure Cisco Unified Communications Manager (CUCM) on a dedicated server or virtual machine.
- Configure IP phone templates and user profiles in CUCM.
- Assign phone numbers/extensions to users and devices.
- Set up dial plans for call routing, including inbound and outbound call routing rules.

4. **IP Phone Configuration:**

- Connect each IP phone to the network and power it on.
- Follow the on-screen instructions on the IP phone to configure network settings such as IP address, subnet mask, gateway, DNS server, etc.
- Enter the user credentials provided by the CUCM administrator to register the IP phone with the CUCM server.

5. **Testing and Troubleshooting:**

- Test call functionality between different IP phones within the VOIP network.
- Verify that inbound and outbound calls are routed correctly according to your dial plan.
- Monitor network performance and troubleshoot any issues that may arise, such as voice quality issues or call drops.