zoomphone

Configuration Guide
For Spectralink 8440 Phone

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Revision History

Version	Date	Author	Change
1.0	18/03/2022	Simon Du	Config guide created

1.1	19/04/2022	Simon Du	Update based on Zoom's Comments

Spactralink 8440 Phone and Zoom Software Versions

	Equipment	Software Version
Spectralink	Spectralink 8440 Phone	7.5.0.2257
Zoom	Zoom App Desktop	5.9.7 (3931)
	Zoom app Mobile	5.9.6 (2729)

1.   Overview

This document outlines the configuration best practices for the Spectralink 8440 Phone as Zoom phone.

2.   Configuration Steps - Zoom Web Portal

This section provides instructions on how to configure Spectralink 8440 phone in Zoom Web Portal

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This section is mainly for adding phone devices (Spectralink 8440 Phone) and assign Zoom user to the devices

Prerequisites:

- Zoom Phone account: a valid Zoom Phone subscription is required in order to assign a Spectralink 8440 Phone endpoint.
- Zoom approval for provisioning of Spectralink 8440 phones as Generic SIP devices. Administrators should contact Zoom Account Executive to start an approval process

Login to Zoom Web portal at https://zoom.us/.

The following Zoom SIP Device configurations are included in this section

1. Create Zoom Users
2. Add Device

1. Create Zoom Users

Zoom Users are created in order to login to Zoom clients on desktop or mobile, it can also be assigned to SIP Device. The steps for creating a user are as follows:

1. Navigate to **User Management > Users**. Click **+ Add Users** to create new Zoom users.
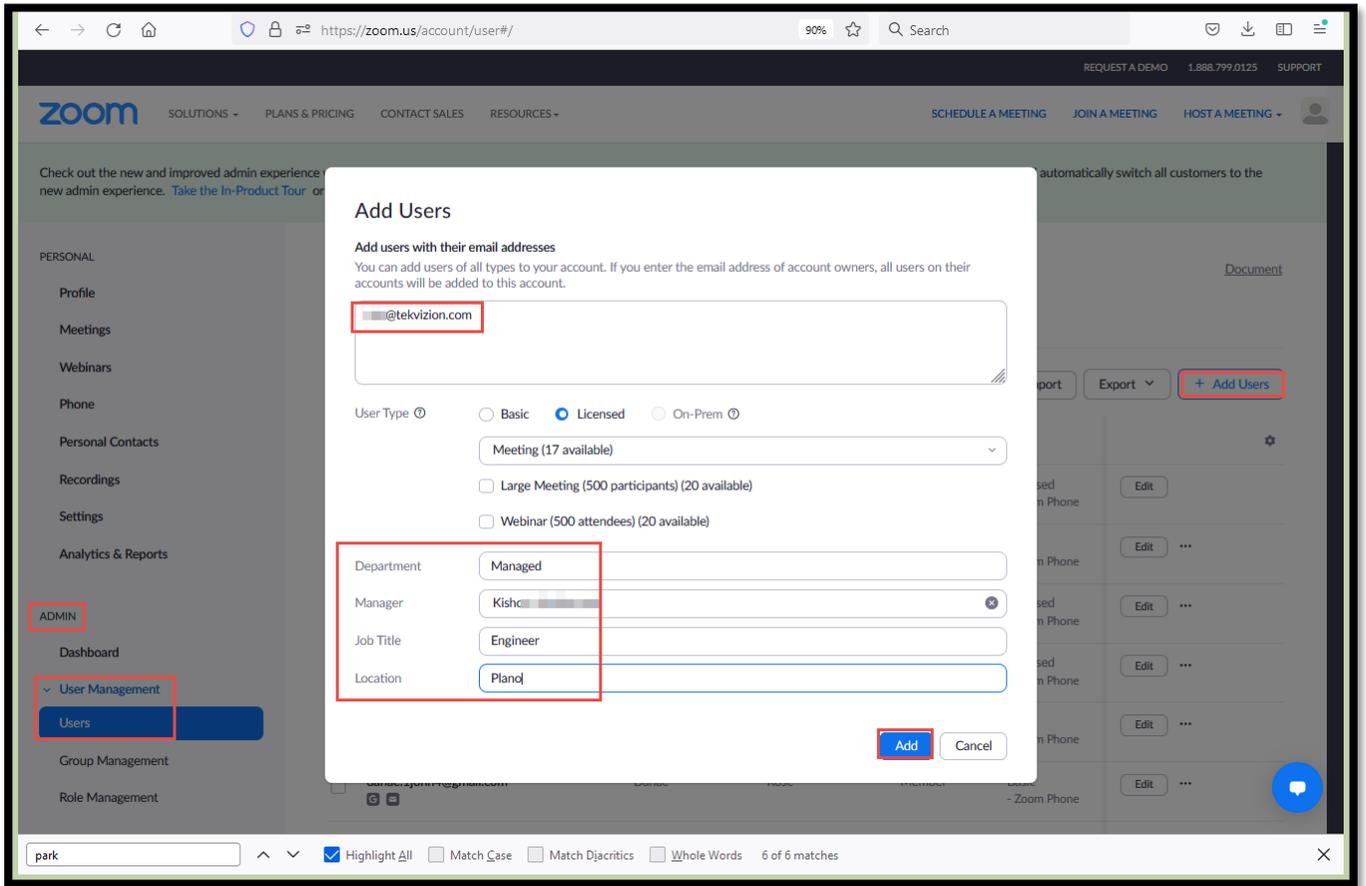
Figure 1 : Add Users

2. A Zoom activation email is send to the email address used in creating the user, follow the instruction to active the zoom account
3. Navigate to **Phone System Management > Users & Rooms.** Click **Add**

Figure 2 : Add Users and Rooms

4.   From pop-up window, select the proper user and **Confirm**
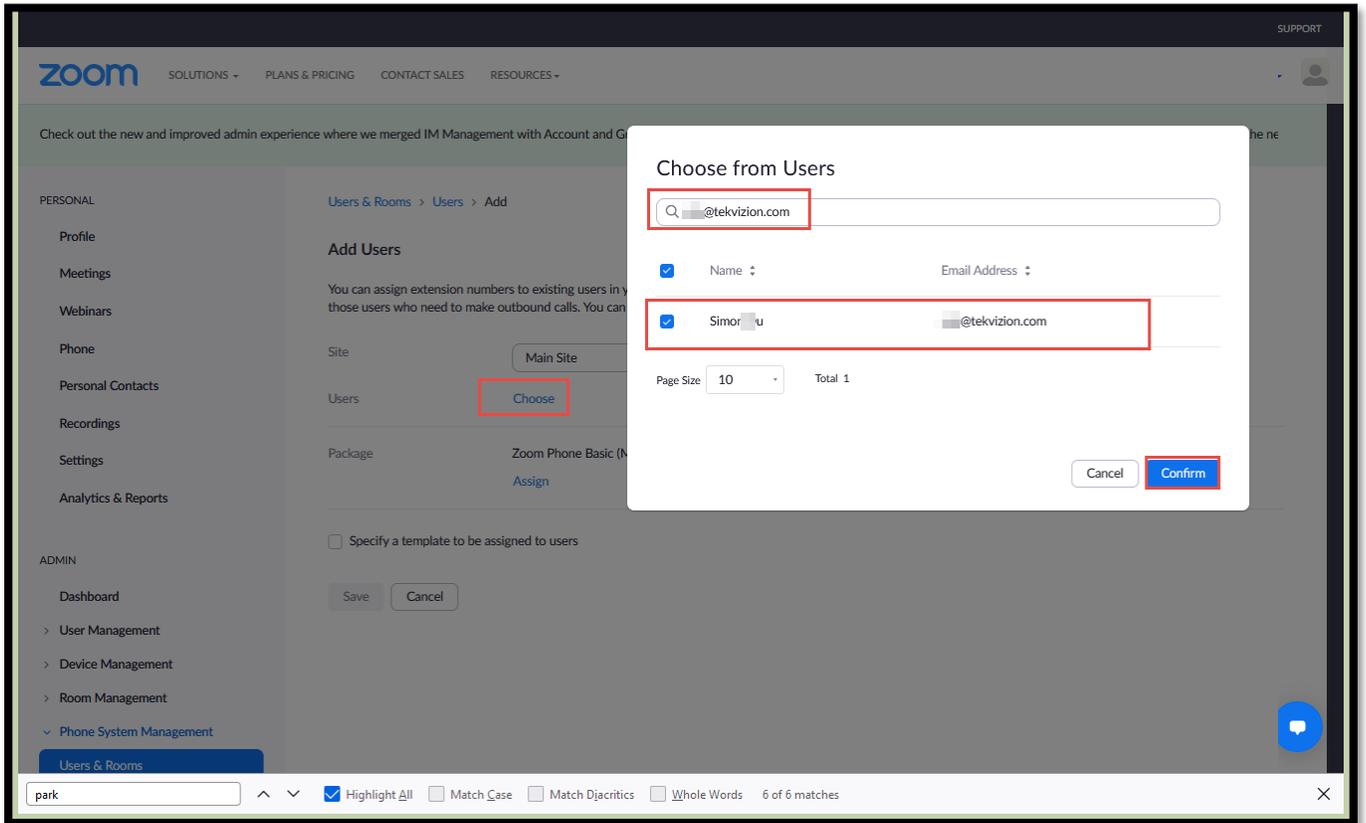
Figure 3 : Choose user

5. Click **Assign** beside **Package** and at new window, select proper Calling plan, **US/CA Unlimited Calling Plan** was picked up, click **Save** to complete adding users under phone system Management

Figure 4 : Assign Calling Plan

6. Select the newly added user, click **Assign** and select **Assign Numbers**

Figure 5 : Assign Number

7. Select the desire DID and click **confirm** to assign the DID to the user

Figure 6 : Select DID Number

2. Add SIP Devices

1. Navigate to **ADMIN** -> **Phone System Management** -> **Phones & Devices**. Click **Add**
    - Set **Display Name: Spectralink 01** is set as an example
    - Set **MAC Address**: add the Spectralink 8440 MAC Address here

- Set **Device Type**: select **Other** as the phone type is not certified yet
- Click **Assign** under **Assigned To** and select the newly created user in previous steps
- Click **Save**
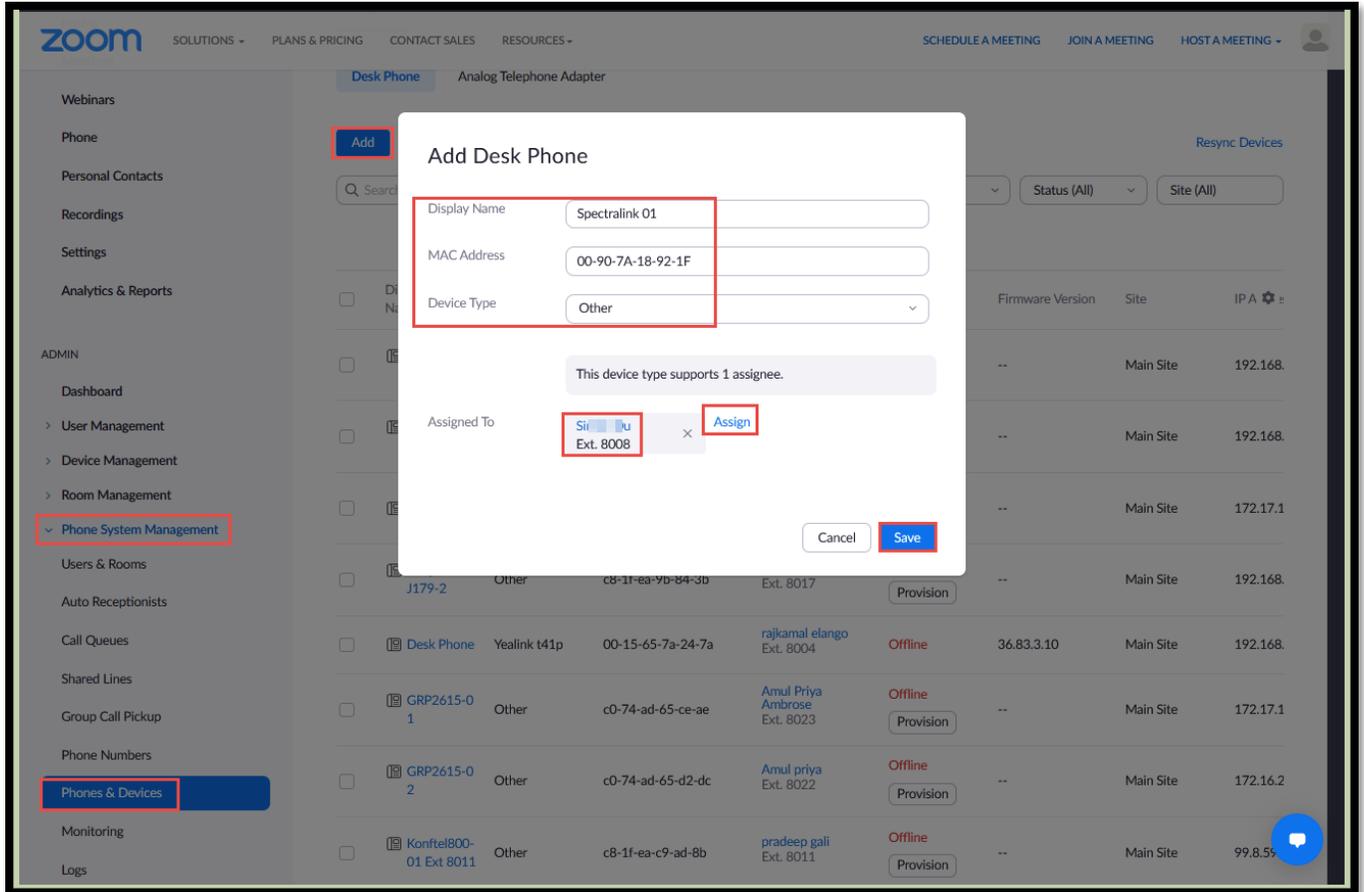
Figure 7 : Add Desk Phone

2. Click **Provision** button for the newly created device. The SIP Account detail is displayed which will be used in Spectralink 8440 configuration in later step

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Figure 8 : Provisioning

3.   Configuration Steps – Spectralink 8440 Phone

This section provides instructions on how to configure Spectralink 8440 phone to register to Zoom Phone Services.

The following Spectralink 8440 Phone configuration steps are included in this section:

1. Topology Diagram
2. Network.
3. Configure Spectralink 8440 Phone.

1. Deployment Topology Diagram
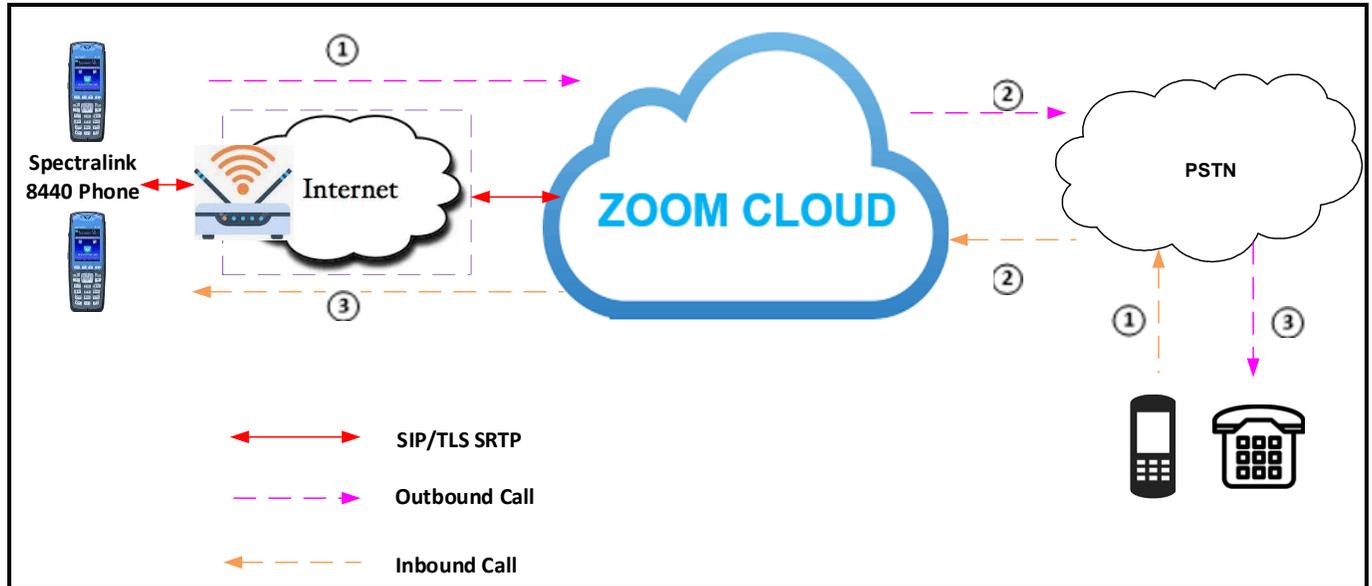
Figure 9 : Network Diagram

2. Network

By default, Spectralink 8440 phones have DHCP enabled, if the wireless router to which Spectralink 8440 connect does not support DHCP, static IP can be configured. Please follow *Spectralink 84-Series Wireless Telephone Administration Guide* to connect your phone to network. Here is the link to the guide: https://support.spectralink.com/sites/default/files/resource_files/1725-86984-000.pdf

You can find the IP address of Spectralink 8440 phones by navigating the physical phone: **Settings** -> **4 Status** -> **2 Network** -> **1 TCP/IP Parameters**.

3. Configure Spectralink 8440 Phone

Spectralink 8440 Phone configuration can be done via physical phone Settings or through Spectralink 8440 Web Configuration Utility. We used Spectralink 8440 Web Configuration Utility to setup the phone.

Access the Spectralink 8440 Web Configuration Utility by using URL http://ip-address in an Internet browser window, where the ip-address is the IP address of the Spectralink 8440 phone. Select **Admin** and input proper **password** (the default password is 456, same password apply to configure the phone via physical phone Settings -> Advanced Settings), then click **Submit**
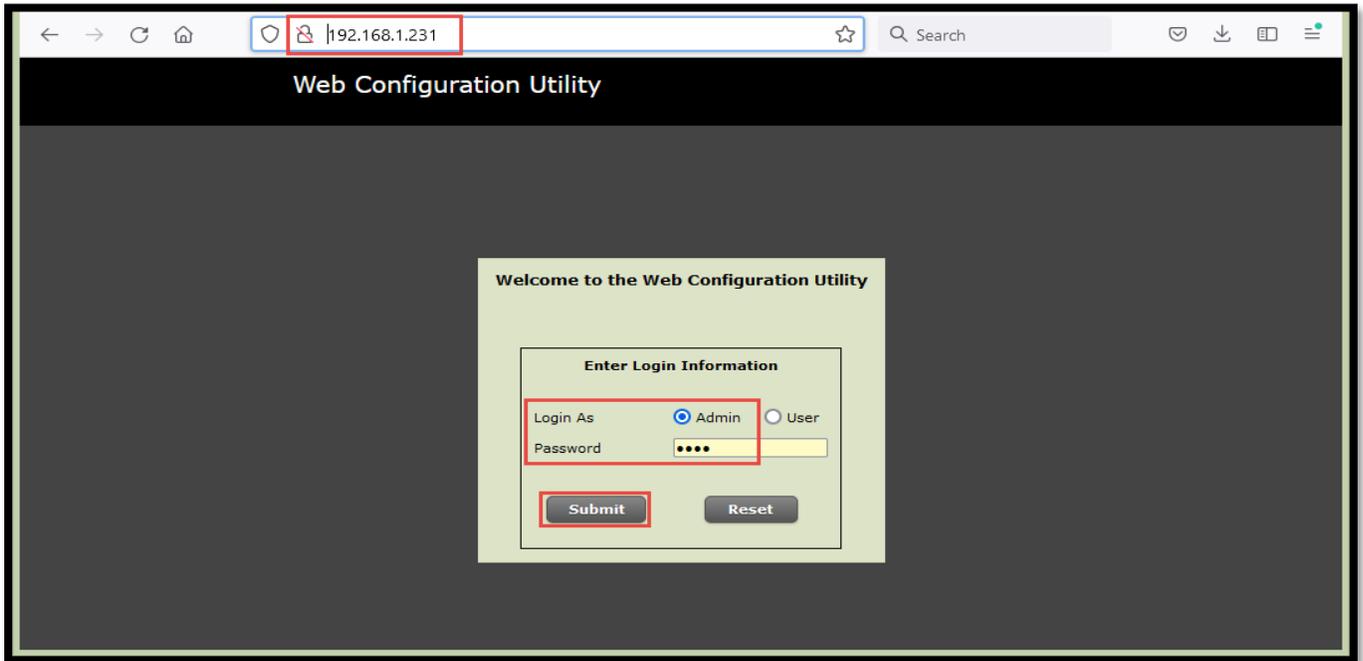
Figure 10 : Web Configuration Utility

You can find the device **MAC Address** and software **version** at home page after login
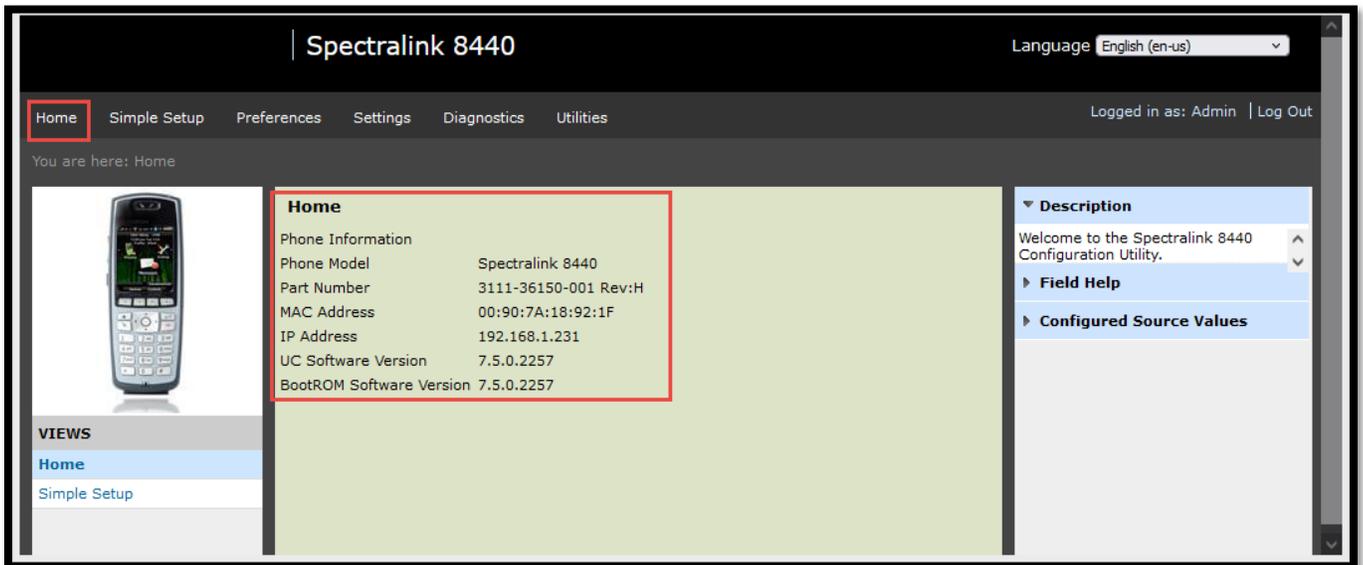
Figure 11 : Home

Navigate to **Simple Setup**

Under **Time Synchronization**

- Set **SNTP Server**: select the propery NTP server, *pool.ntp.org* is select for the test
- Set **Time Zone**: please select proper time zone for your deployment, **(GMT-6:00) Central Time…** is selected

Under **SIP Server**

- Set **Address**: in put the **SIP Domain** detail from Zoom phone Provisioning in previous step
- Set **Port**: **5091** is given to match the Zoom Portal configuration

Under **SIP Outbound Proxy**

- Set **Address**: This is the **Outbound Proxy** from Zoom Phone Provisioning

- Set Port: **5091** is given to match the Zoom Portal configuration

Under **SIP Line Identification**

- Set **Display Name**: **Spectralink 01** is given for the test
- Set **Address**: this is the **User Name** in Zoom Phone Provisioning
- Set **Authentication User ID**: this is the **Authorization ID** in Zoom Phone Provisioning
- Set **Authentication Password**: this is the **Password** in Zoom Phone Provisioning
- Set **Label**: Zoom Extension number **8008** is given here

Click **Save** to apply the configuration

Figure 12 : Spectralink 8440 configuration

Navigate to **Settings** -> **Lines** –> **Line 1**
Under Identification

- Set **Enable SRTP**: **Yes** is checked
- Set **Offer SRTP**: **Yes** is checked for the test

Under **Outbound Proxy**

- Set **Transport**: **TLS** is set as required by ZOOM

Under **Server 1**

- Set **Transport**: **TLS** is set as required by ZOOM

Click **Save**

Figure 13 : Configure SRTP

4. Support Features and Limitations observed in device

The following features are supported by Device

1. Features Supported

- Basic Call with Codec G722 and G711
- Call Hold/Resume
- Call Waiting
- Call Forward (All, Busy and No Answer)
- Call Transfer (Blind and Consultative)

- 3-Party Conference
- Zoom Voice Mail and Message Indication
- Call Logs
- Call Park
- AES 128 CM HMAC SHA1 80 Algorithm for SRTP

Featuers are not supported

2. Features Not Supported

- Opus Codec
- Call Flip
- Share Line – Call Delegation
- AEAD AES 256 GCM Algorithm for SRTP
- AES 256 CM HMAC Algorithm for SRTP

Features failed during the test

3. Features Test Failed

- None