Wave
Spectralink Phone
Configuration Guide

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Supported Phones

This guide describes how to configure and deploy Spectralink® 8400-series Wireless Phones for use with Vertical Wave IP.

Equipment and Software Validated

Vertical has tested the following equipment and software:

Equipment	Software
Wave IP 500 Communications Platform	Wave ISM 4.5
Wave IP 2500 Communications Platform	Wave ISM 4.5
Spectralink 8440	4.3.0.0172
Spectralink 8452	4.3.0.0172

Spectralink 8400-series Wireless Phone

Spectralink Phone Configuration Steps

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Configuration overview

Setting up a Spectralink phone consists of the following tasks: When these tasks are complete, the phone will connect to the Wi-Fi network.

- Set up a Wi-Fi profile with your Wi-Fi network information that will be used to configure devices.
- Create at least one Wave user for each Spectralink phone using the new Wi-Fi profile.

  Note: Each Spectralink user requires a Wave Third party or Certified third party IP license.

- Connect the Spectralink phone to the Wave using a USB cable to apply the Wi-Fi settings to the phone.

Optionally, you can set up Push to Talk groups that are used for broadcast messaging with groups of Spectralink phones. For details, see page 2-8.

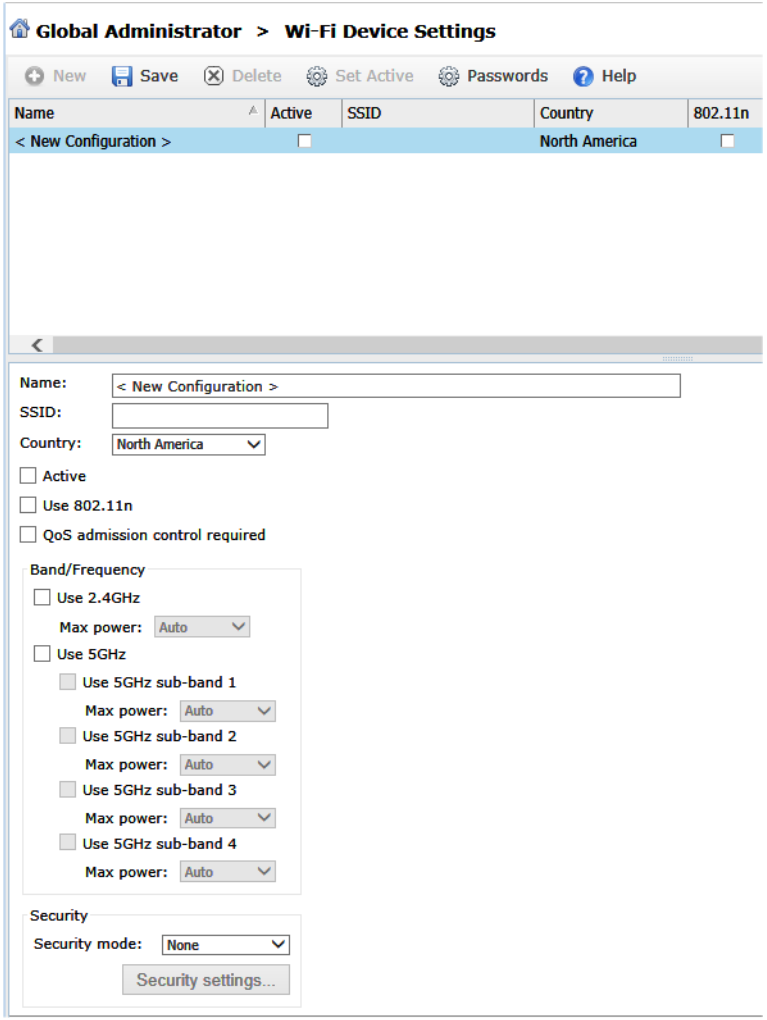
Setting up a Wi-Fi profile

You use the Wi-Fi Device Settings applet to define the capabilities of third-party Wi-Fi devices, that need configuration information from the Wave. Currently, only Spectralink 8400-series Wireless phones are supported.

To set up a Wi-Fi profile:

Important: The information that you enter here should match the wireless network settings of your access points.

1 Click **Wi-Fi Device Settings** on the Applications tab in the Global Administrator Management Console.



2 Select **New Configuration**, or click **New** on the toolbar.

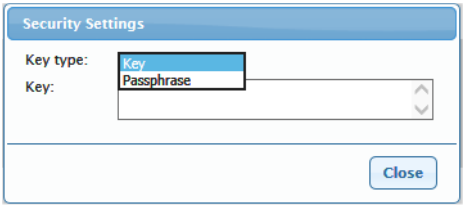
3 Enter the following information for the new Wi-Fi profile:

- **Name**. Used to identify the Wi-Fi network in Wave. (This name is not used as a specific setting in the device.)
- **SSID**. Wi-Fi Network Service Set Identifier (SSID). This setting should be unique for each network.
- **Country**. Select the country or region where the system will be used.

  Note: Wave is only certified for use in North America and Europe.

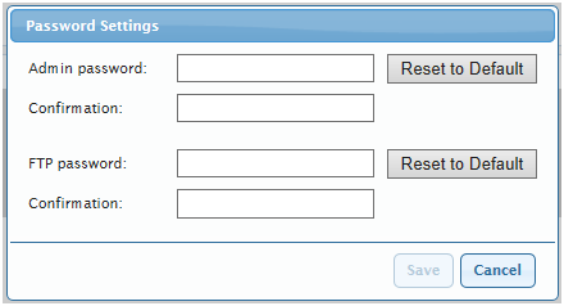
- **Active**. Check to make this the active profile. Only one profile may be active at a time. The active profile will be applied to all phones when they are plugged in. You can maintain profiles for more than one Wi-Fi network, but only one can be active at a time.
- **Use 802.11n**. Check if your Wi-Fi setting includes support for 802.11n networking. (Default setting is unchecked.)
- **QoS admission control required**. If the Access Points used in your network enforce access or admission control, turn this setting on. Otherwise, leave the default setting (unchecked).
- **Band/Frequency**. Set the appropriate frequency used for your wireless network (2.4 Ghz, 5 Ghz, or both). For 5 Ghz, select a sub-band if needed. Leave power settings at auto unless your wireless network setup requires it.
- **Security Mode**. Specify the WPA security mode used in your network. Choices are None, WPA-PSK, or WPA2-PSK.

4 Click **Security Settings** to set the security key or passphrase used in your network:



5 Click **Close**.

6 Optionally, click **Passwords** on the toolbar to better secure the Spectralink phone and the Wave.



- **Admin password**. Enter and confirm the Admin password on the phone so that end-users cannot change settings on the phone using the (widely known) default password on the phone.
- **FTP password**. Enter and confirm the password on the FTP account used by Wave to configure the phone. This changes the password on the Slink FTP account.

7 Click **Save**.

8 Click **Save** on the toolbar to save your changes, then exit Wi-Fi Device Settings.

Creating a Wave user using the Spectralink profile

You must create at least one Wave user per Spectralink phone. If a phone will be shared by several users, create multiple Wave users with individual extensions.

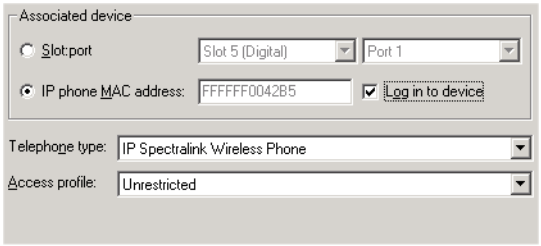
To create a Wave user using the Spectralink profile:

1 Create the user in User/Group Management in the Global Administrator Management Console.

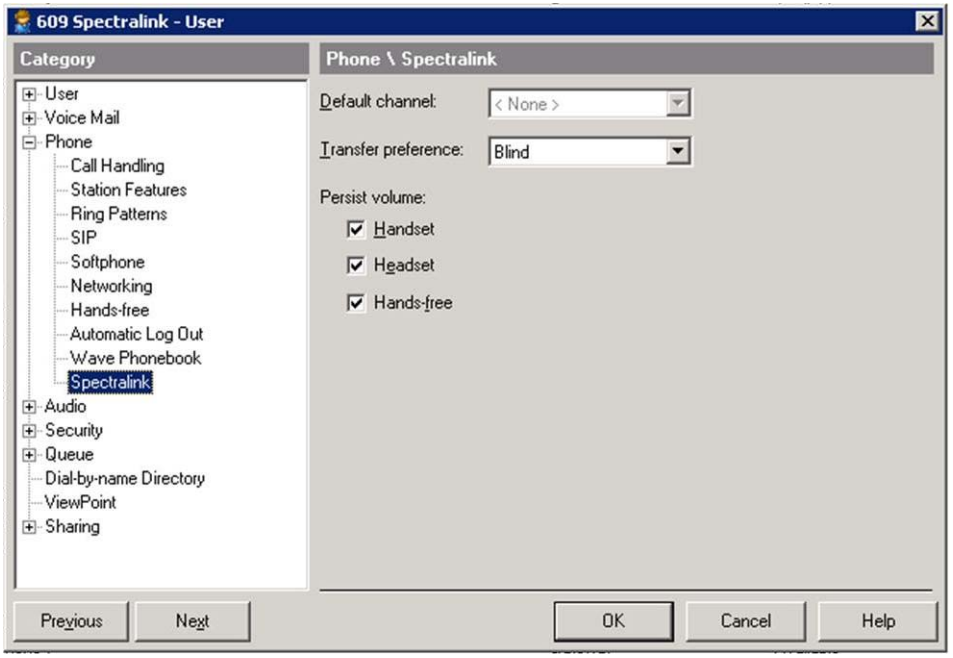
2 On the User tab, click **IP phone MAC address**, and then select “IP Spectralink Wireless Phone” from the **Telephone type** drop-down list.

3 Choose one of the following modes of operation:

- If the Spectralink phone will be dedicated to one user (normal operation), enter the phone's **IP Phone Mac Address**.
- If the Spectralink phone will be used by multiple users with individual extensions, select **Log In to Device**. (Since no **IP Phone MAC address** is needed in this configuration, that field is disabled.) End users will be prompted by the phone to log in with their individual extension and password.



4 To specify additional Spectralink settings for the user, click the Phone \ Spectralink tab:



- **Default channel**. Select the user's Default channel from the drop-down list. This user will send and receive Push to Talk messages on this channel. **Default channel** is disabled until you have enabled at least one channel when you set up Push to Talk groups. For detailed steps, see “Configuring Spectralink Push To Talk groups” on page 2-8.
- **Transfer preference**. Select Blind or Supervised from the drop-down list.
- **Persist volume**. These settings guarantee that any volume setting changes will persist in the phone through power cycling. You can specify settings for Handset, Headset, and Hands-free.

5 Click **OK** to save your changes.

Autoprovisioning a Spectralink phone

You connect the Spectralink phone to the Wave to apply the Wi-Fi profile settings to the phone.

To autoprovision the Spectralink phone

1 Connect the phone to the USB port on the Wave using the USB cable provided with the phone.

The phone will beep. After about 15 seconds the phone will reboot. As the phone is updated from the Wave, it will reboot several times.

2 Leave the phone connected to the Wave until the phone display prompts you to enter a **User ID** and **Password**. (This may take 3 to 4 minutes.)

3 To enter the phone's extension:

- Press the **Encoding** softkey on the phone, and then press **4** on the keypad.
- Using the keypad, enter the phone's 4-digit extension number in the **User ID** field.

4 To enter the phone's password, use the Navigation Key to arrow down to **Password**, and then enter the password using the keypad.

5 Press the **Log in** softkey on the phone.

6 The phone will reboot again. When autoprovisioning completes successfully, the Spectralink phone display looks like this:

Configuring Spectralink Push To Talk groups

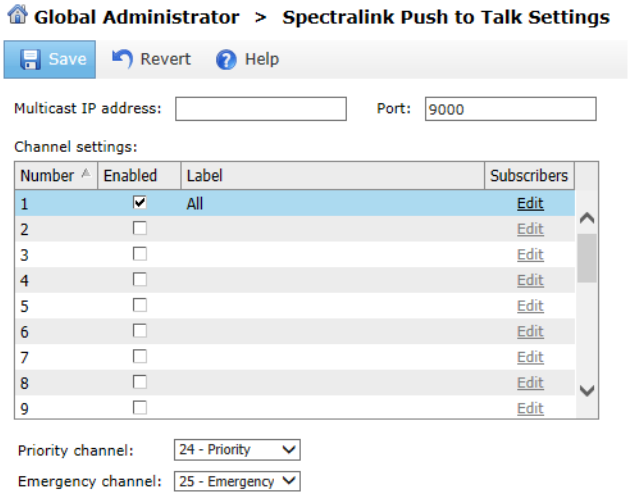
Spectralink phones support the ability to use “Push to Talk” capabilities between the phones. You set up Push to Talk groups that are used for broadcast messaging with other Spectralink phones.

You can set up one or more Push To Talk groups, specifying a different channel for each one. Then you add users to each group, and finally you set a default channel for each user.

Note: Before you can assign Spectralink users to a Push To Talk group, you must create a Wi-Fi settings profile and configure those users correctly, as described previously in this chapter.

To set up a Push To Talk group:

1 Click **Spectralink Push To Talk Settings** on the Applications tab in the Global Administrator Management Console.

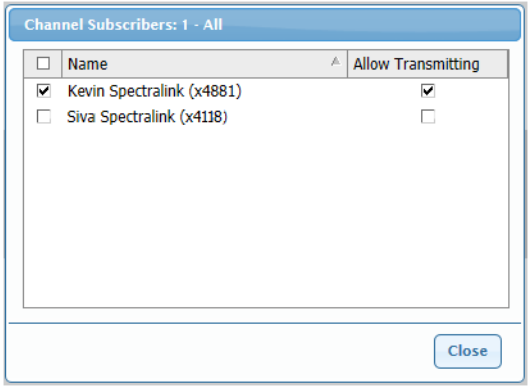


2 Enter a **Multi-cast IP address**. This address cannot be the same as any other in-use IP address.

3 Enter a **Port** number to be used for the multi-cast.

4 Up to 25 channels are available for Push to Talk use. To configure a channel:

- Click **Enabled** for the channel.
- Click in the **Label** column and provide a name for the channel.
- Click **Edit** in the **Subscribers** column. A list of all users configured with Spectralink phones opens:



Select the users to include in the channel. All of these users will receive Push to Talk messages on that channel.

- Choose **Allow Transmitting** for each user who can broadcast to the Push to Talk channel.
- Click **Close**.

5 One **Priority channel** can be specified for transmitting critical messages. This channel overrides any normal call that is already on the phone and any other push to talk message. Specify a **Priority channel** by choosing a subscribed channel in the drop-down list.

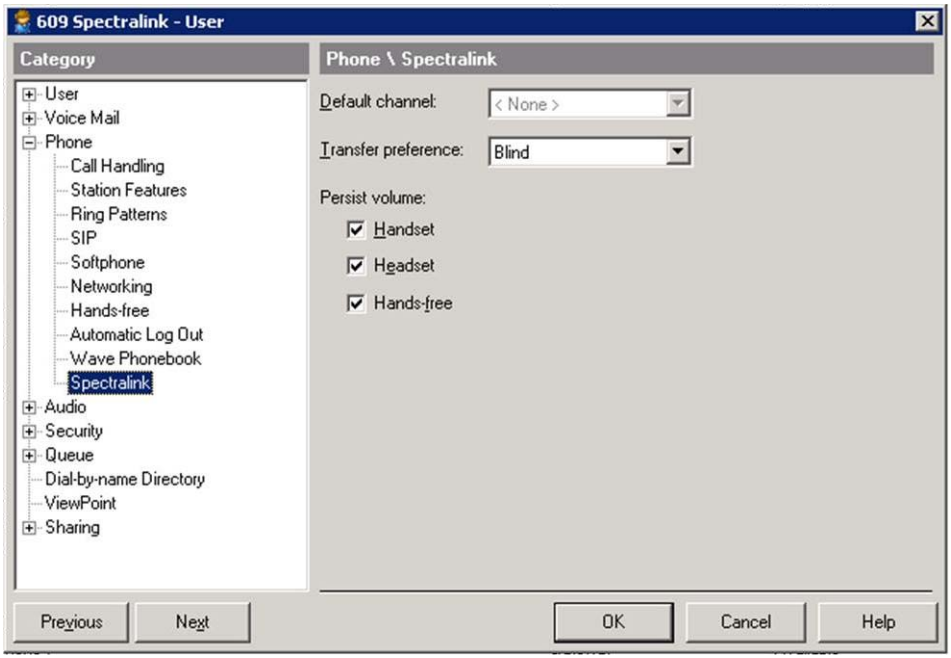
6 One **Emergency channel** can be specified for transmitting emergency alerts. This channel overrides any normal call, push to talk message, or priority message. Specify an **Emergency channel** by choosing a subscribed channel in the drop-down list.

7 Click **Save** on the toolbar to save your changes, then exit Spectralink Push To Talk Settings.

To set a default channel for each Spectralink user:

1 Edit the user in User/Group Management in the Global Administrator Management Console.

2 On the Phone \ Spectralink tab, select the user's **Default channel** from the drop-down list. This user will send and receive Push to Talk messages on this channel. **Default channel** is disabled until you have enabled at least one channel when you set up Push to Talk groups, described above.



For a description of the other settings on this tab, see page 2-5.

3 Click **OK** to save your changes, and repeat these steps for each other Spectralink phone user in a Push To Talk group.