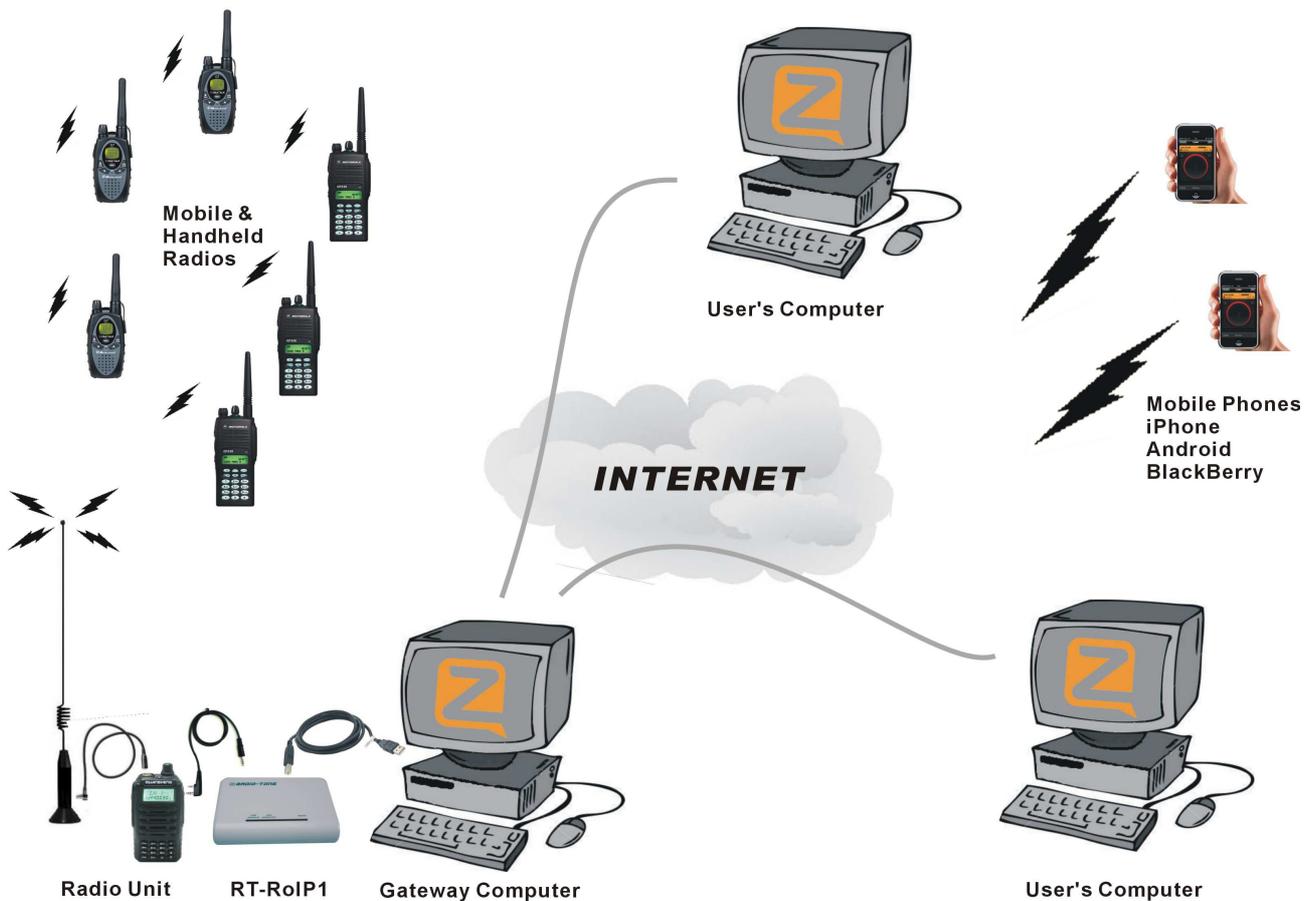


## Setup A Two Way Radio over IP Gateway By Using RT-RoIP1 and Zello

This is a quick guide to setup a two way radio over IP gateway by using RT-RoIP1 and Zello. After the gateway is setup, user can run the Zello software/apps on desktop computer, notebook computer and mobile device to communicate all of the mobiles and handhels on the site.



### 1. System Installation

Please refer to the User's Guide of RT-RoIP1 for the details of the system installation.  
**Bear in mind that the system MUST use external antenna for the Radio Unit.**

### 2. Zello Installation

Please browse <http://www.zello.com> to download and install the Zello software on the gateway computer and mobile phones.

### 3. Create Accounts

Create accounts and sign in the accounts on the gateway computer and mobile devices.

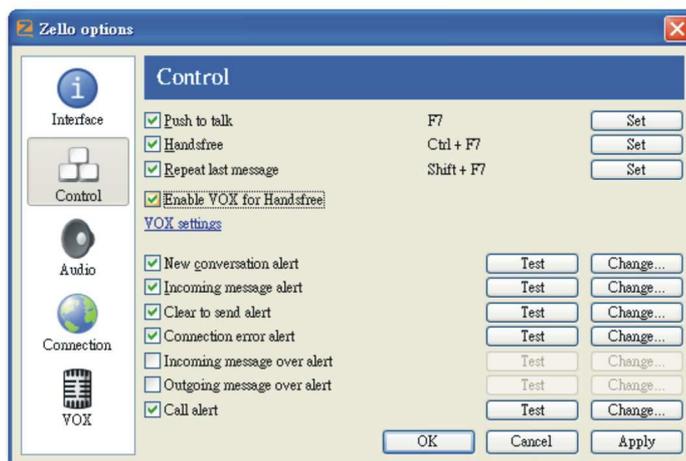


### 4. Setup Zello On The Gateway Computer

Click on the [Tools – Option] to open the option setup menu.

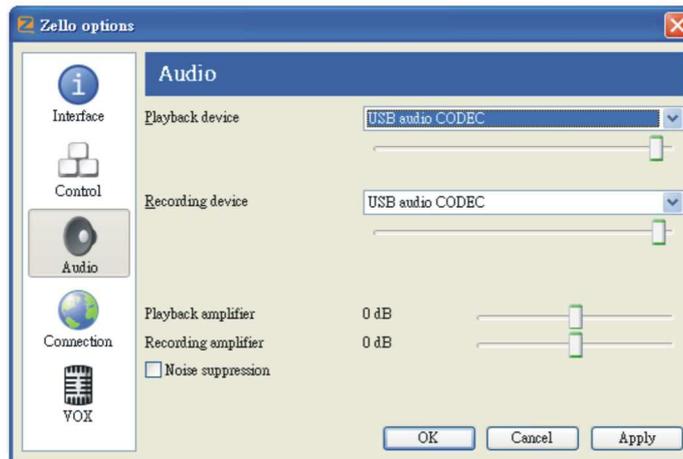
#### Setup Control Settings

- Click on the [Control] Tab to select the control setup menu.
- Check on the “Enable VOX Handsfree” check box to enable VOX feature.



## Setup Audio Settings

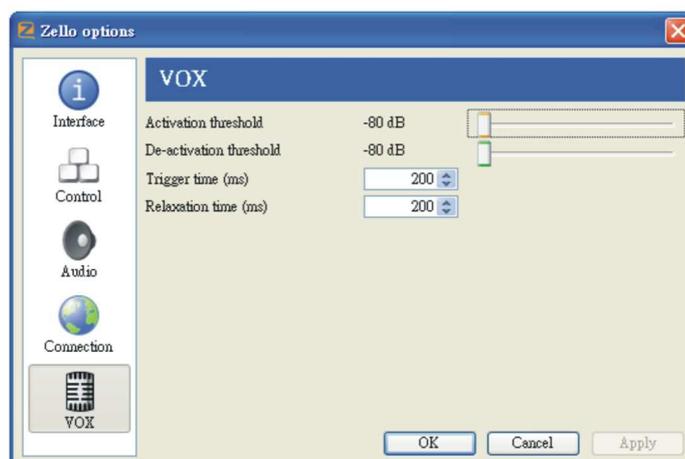
- Click on the **[Audio]** Tab
- Select **“USB audio CODEC”** as Playback device and adjust its output to approximate 90% of MAX level.
- Select **“USB audio CODEC”** as Recording Device and adjust their output to approximate 90% of MAX level.



## Setup VOX Settings

Note: Below settings are just recommendation, you may change them to different values.

- Click on the **[VOX]** Tab
- Adjust the **“Activation threshold”** to -80dB.
- Adjust the **“De-activation threshold”** to -80dB.
- Adjust the **“Trigger time (ms)”** to 200.
- Adjust the **“Relaxation Time to”** 200.



## End of Setup

Click on the **[OK]** button to close the Option setup menu.

## 5. Add Contacts, Channels or Create Channels

Click on the **[Tools]** pull down menu to select “add contacts”, “add channels” or “create channels”. For more operation details, please read the information from Zello.

## 6. Enable Handsfree function

- Click on the contact on the list.
- Click on the **[Handsfree]** button or **[Ctrl-F7]** to enable the Handsfree function.



## 7. Normal Communication

Now the two way radio over IP network was completed setup. All of the mobiles radios, handheld radios, computer, mobile phones can be communicated.