



**Panasonic**  
BUSINESS

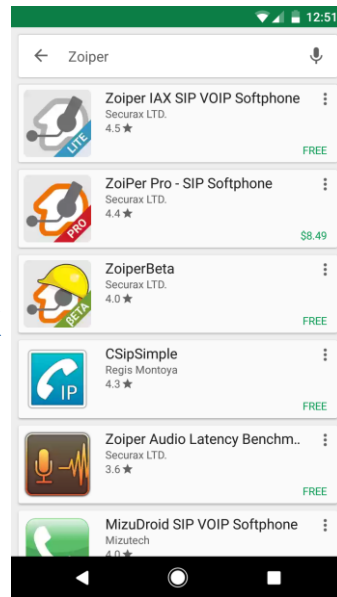
**TelQuest**  
International  
TelQuest International  
973-808-4588

KX-NS Series and Zoiper for iPhone and Android

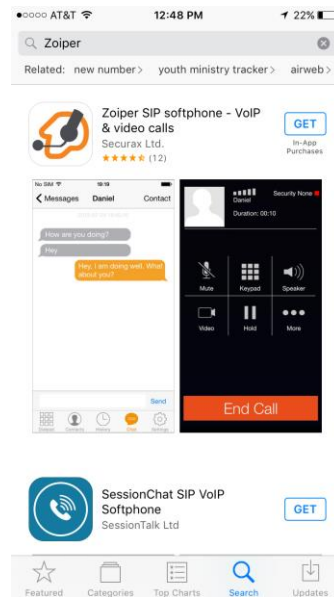
Setup information

## Requirements:

- Download from Play Store or Apple Store
- KX-NSM7xx activation key
- Setup of SIP Extension in PBX
- MRG Setup if using outside of PBX Network



Play Store



Apple Store

## KX-NS Series MRG Setup

NAT Address = Outside Internet address

SIP Proxy Server Port = unique port

Note: On v4.3 and above, the SIP Proxy port will be '0'. You must set it to something that does NOT have '50' in it. (ex. 15060 = ng, 15600 = ok)

The screenshot displays the 'PBX Configuration' interface. On the left is a navigation tree with categories: 1. Configuration (1. Slot, 2. Portable Station, 3. Option, 4. Clock Priority, 5. DSP Resources), 2. System, 3. Group, 4. Extension, 5. Optional Device, 6. Feature, 7. TRS, 8. ARS, 9. Private Network, and 10. CO & Incoming Call. The '1. Slot' sub-item is selected. The main panel shows the 'Media Relay' tab with the following settings:

- Common**
  - NAT - External IP Address: 11.22.33.44
- IP Extension / IP-CS**
  - NAT - MGCP Server Port No.: 2727
  - NAT - MGCP Server Port No. for IP-CS: 32727
  - Keep Alive Packet Type: Blank UDP
  - Keep Alive Packet Type for IP-CS: Blank UDP
  - Keep Alive Packet Sending Interval Time (s): 20
  - NAT - FTP Server Port No.: 31021
- SIP Extension / UT Extension**
  - NAT - SIP Proxy Server Port No.: 15060

## KX-NS Series SIP Extension Setup

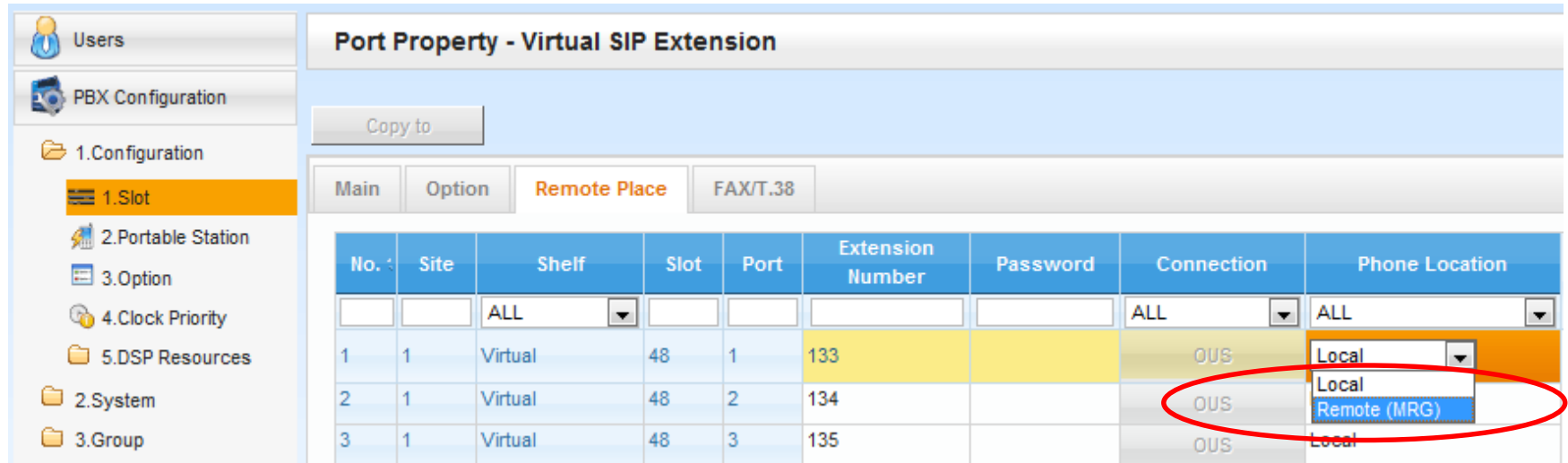
Need:

- 1. Extension #
- 2. Password

The screenshot displays the 'Port Property - Virtual SIP Extension' configuration page. On the left is a navigation tree with 'PBX Configuration' expanded to '1. Configuration' and '1. Slot' selected. The main area shows a table with the following data:

No.	Site	Shelf	Slot	Port	Extension Number	Password	Connection
		ALL					ALL
21	1	Virtual	18	21	135	12345	OUS
22	1	Virtual	18	22			OUS
23	1	Virtual	18	23			OUS
24	1	Virtual	18	24			OUS
25	1	Virtual	18	25			OUS
26	1	Virtual	18	26			OUS

## Set extension as a Remote extension



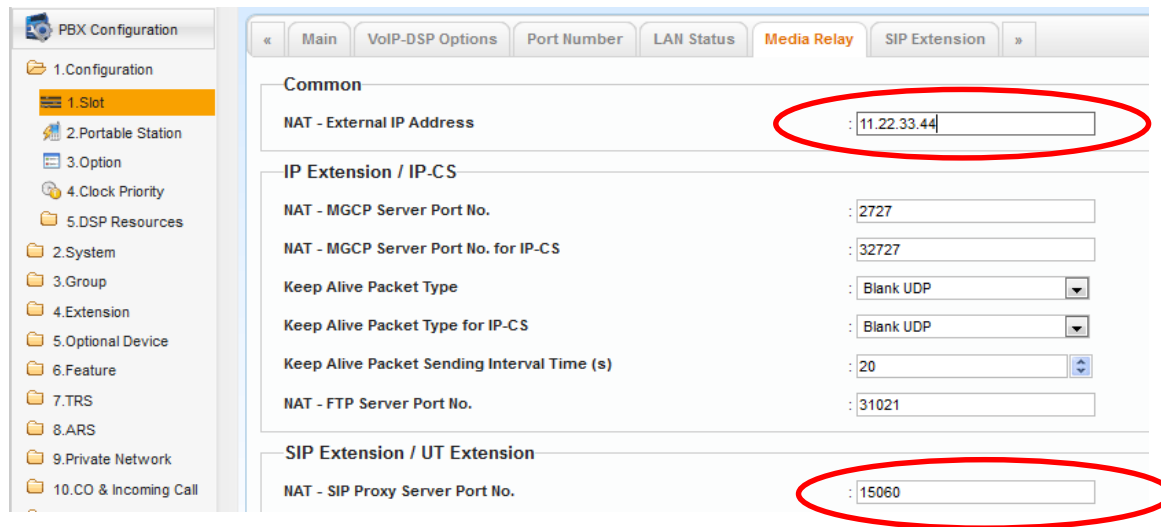
The screenshot displays the 'Port Property - Virtual SIP Extension' configuration page in the Zoiper interface. The left sidebar shows the navigation menu with '1. Slot' selected. The main area has tabs for 'Main', 'Option', 'Remote Place', and 'FAX/T.38', with 'Remote Place' being the active tab. A 'Copy to' button is visible above the table. The table lists virtual SIP extensions with columns for No., Site, Shelf, Slot, Port, Extension Number, Password, Connection, and Phone Location. The first row (No. 1, Site 1, Shelf Virtual, Slot 48, Port 1, Extension Number 133) is highlighted in yellow. A dropdown menu for the 'Phone Location' column of this row is open, showing 'Local' and 'Remote (MRG)' options, with 'Remote (MRG)' selected. A red circle highlights the 'Remote (MRG)' option in the dropdown menu.

No.	Site	Shelf	Slot	Port	Extension Number	Password	Connection	Phone Location
		ALL					ALL	ALL
1	1	Virtual	48	1	133		OUS	Local
2	1	Virtual	48	2	134		OUS	Local
3	1	Virtual	48	3	135		OUS	Local

## Port forwarding rules for Router

Protocol	Port number	Destination
SIP	0(UDP)*	PBX IP Address:5060(UDP)

**\* Default port number is 0. You will need to specify a port number of your choosing between 1—65535. You cannot use x50xx, 50xx, or any other port already assigned to another service. This change was made for security purposes.**



# Required Port Forwarding

## Port forwarding rules for Router

Protocol	Range of port number (WAN)	Destination	Description
RTP	16000-16511(UDP)	DSP 1-1	NS700/1000
	16512-17023(UDP)	DSP 1-2	NS700/1000**
	17024-17535(UDP)	DSP 2-1	NS1000**
	17536-18047(UDP)	DSP 2-2	NS1000**

**\*\* This programming is not necessary in all cases. If your PBX has zeros for the MAC address of the DSP Card, do not use the corresponding rule. Check this at Network Service > IP Address/Ports**

DSP IP Setting

Obtain DSP IP address automatically  
 Use the following DSP IP address

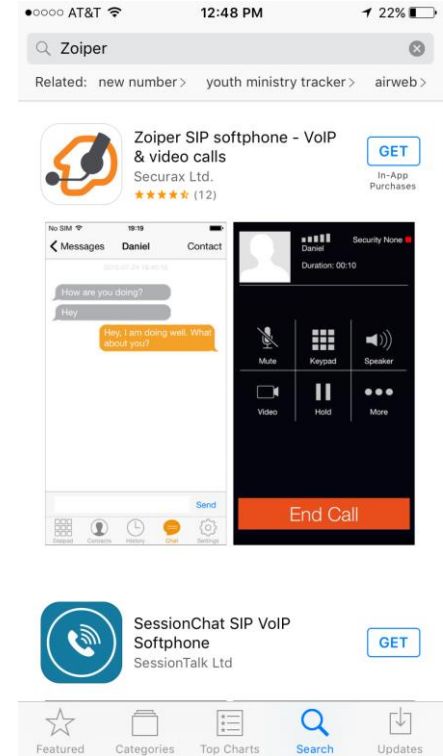
DSP Card - 1

IP Address : 10.0.0.72  
MAC Address : 08:00:23:A6:2B:7A

DSP Card - 2

IP Address : 10.0.0.73  
MAC Address : 00:00:00:00:00:00

- Download Zoiper or Zoiper Premium from Apple Store

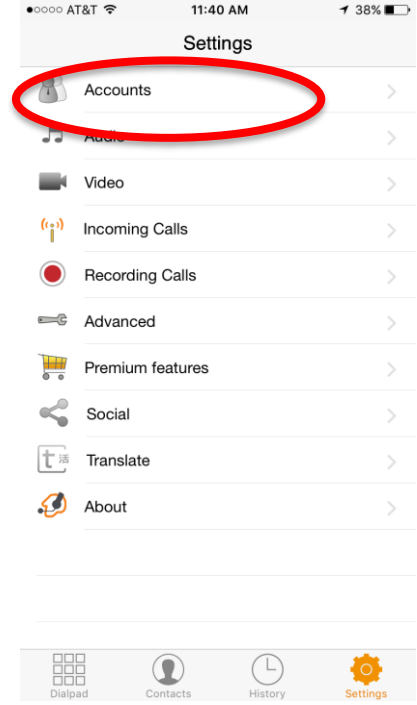
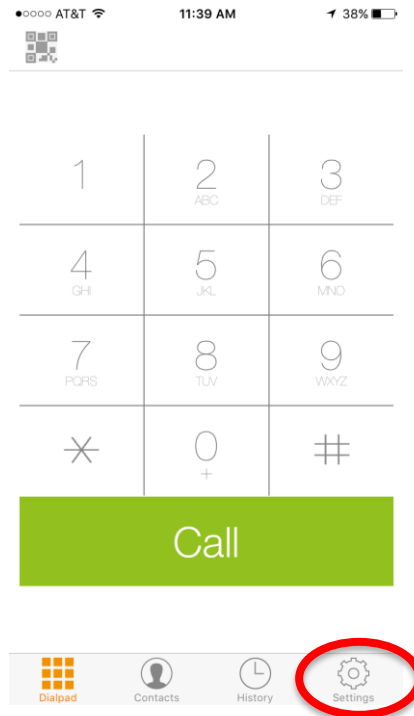
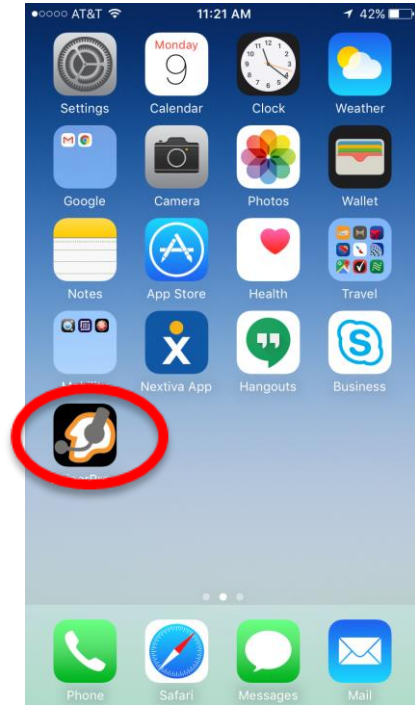




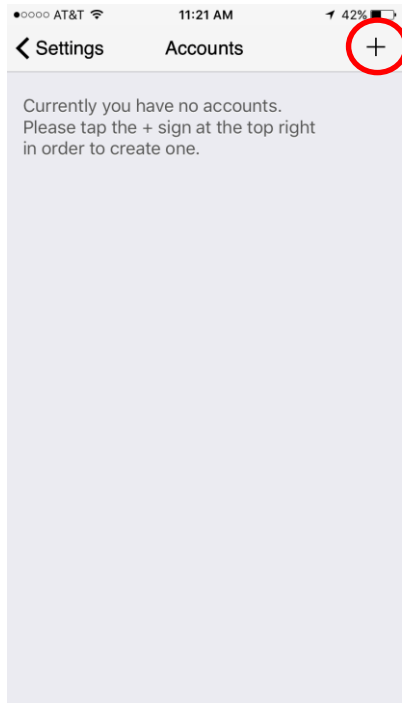
# Zoiper for iPhone

1. Open the Zoiper app 2. Choose Settings

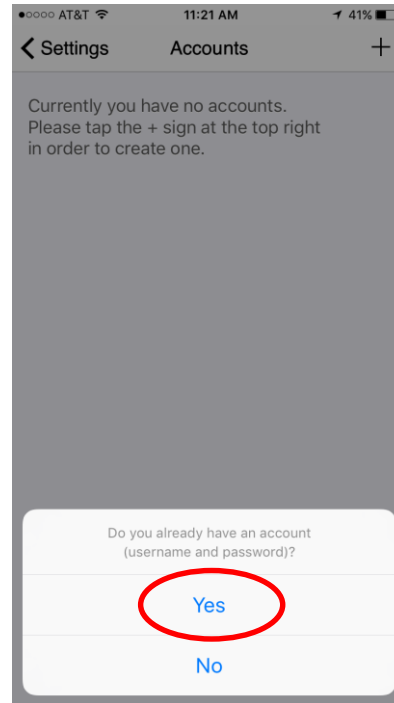
3. Choose Accounts



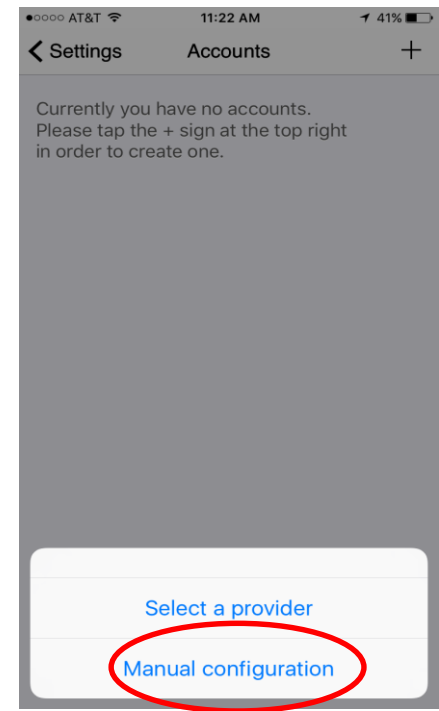
## 4. Add Account



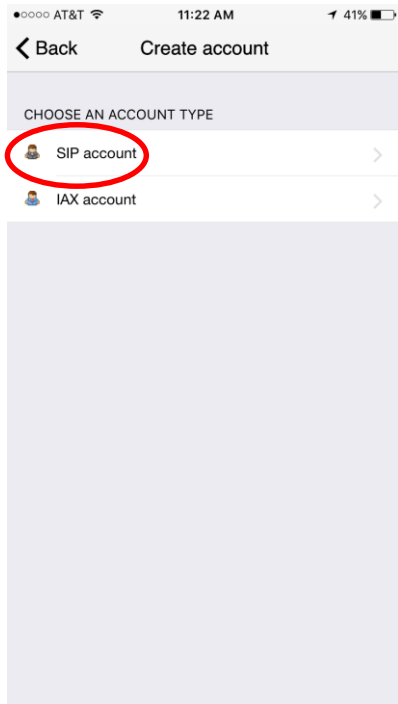
## 5. Choose Yes



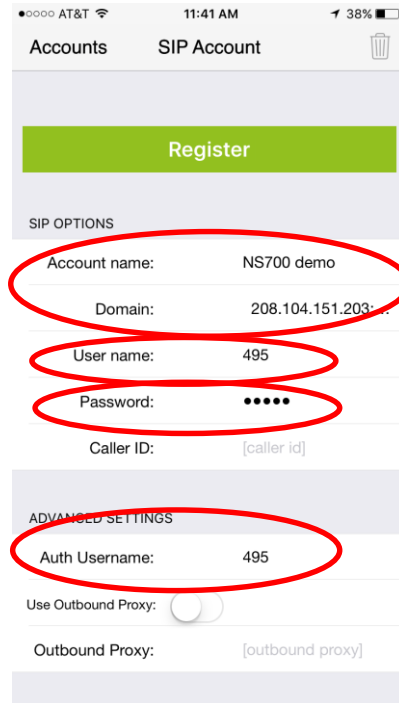
## 6. Choose Manual



## 7. Choose SIP Account



## 8. Set the following



Account name: Anything you want (ex. NS700 demo)

Host: IP Address: MRG: SIP Proxy Port  
(ex. 208.104.151.203:15600)

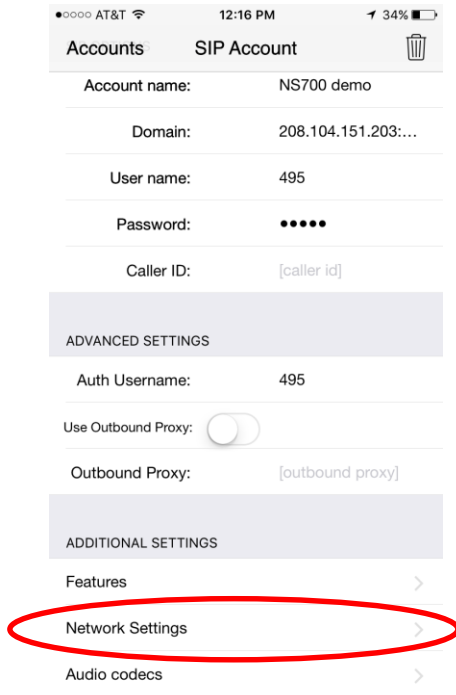
Username: Ext # (ex. 495)

Password: Password (ex. 54321)

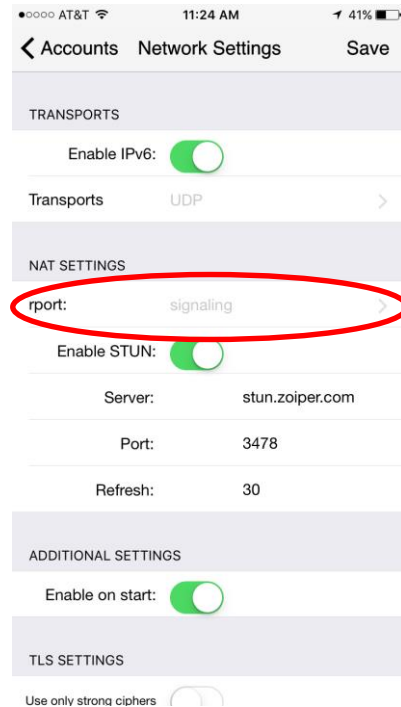
Authentication user: Ext # (ex. 495)

Note: Authentication user and  
Username must match extension #

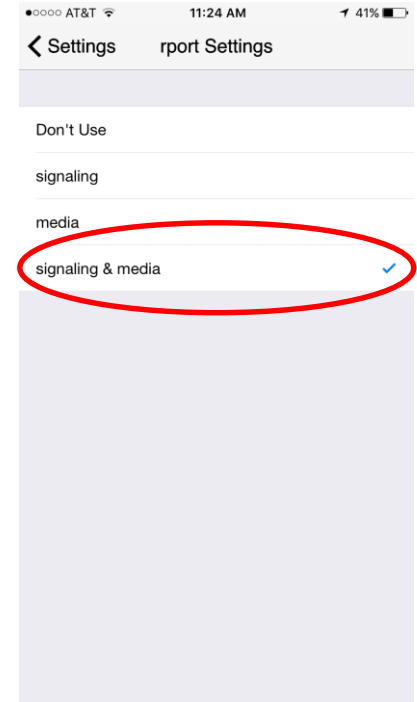
## 9. Network Settings



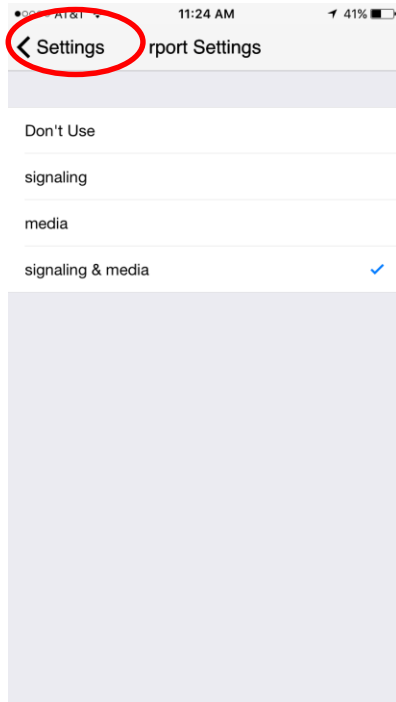
## 10. Choose rport



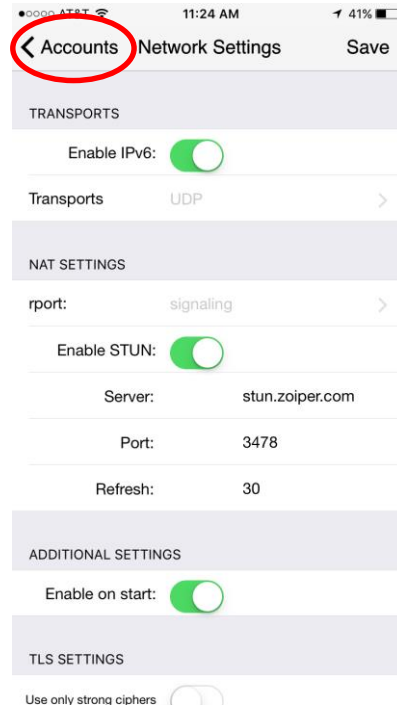
## 11. Choose signaling & media



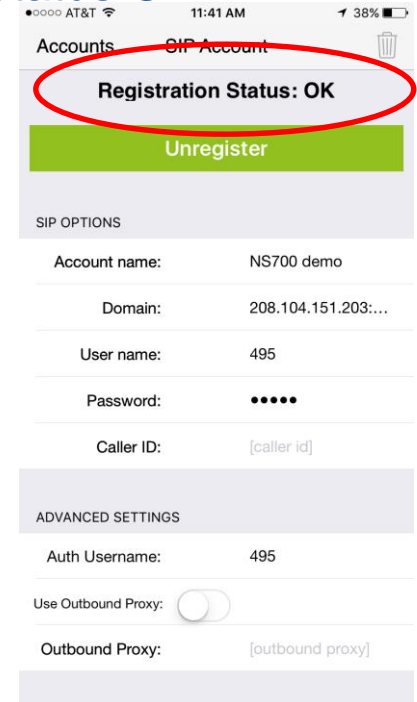
## 12. Choose Settings



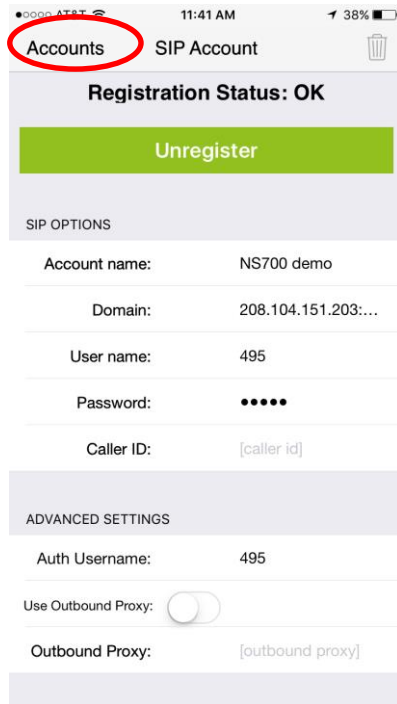
## 13. Choose Accounts



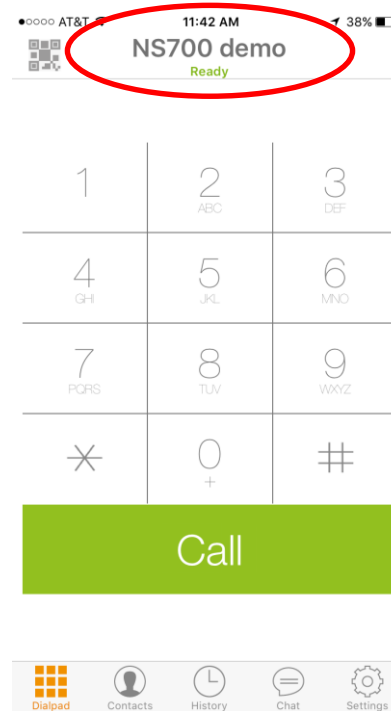
## 14. Registration Status OK



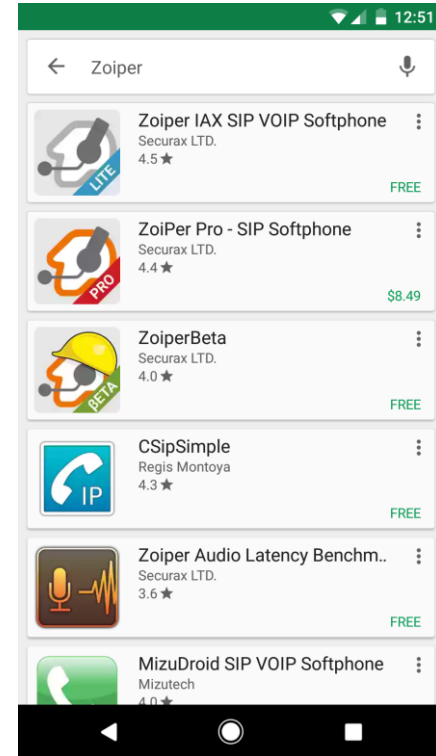
## 15. Choose Accounts



## 16. Congratulations!

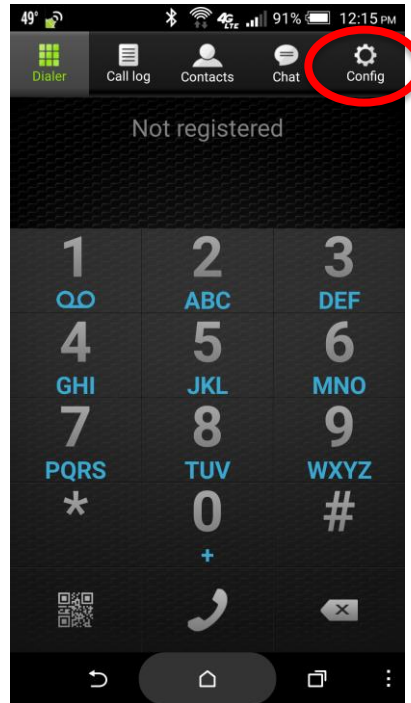
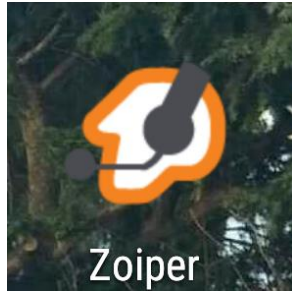


- Download Zoiper Lite or Zoiper Pro from Play Store

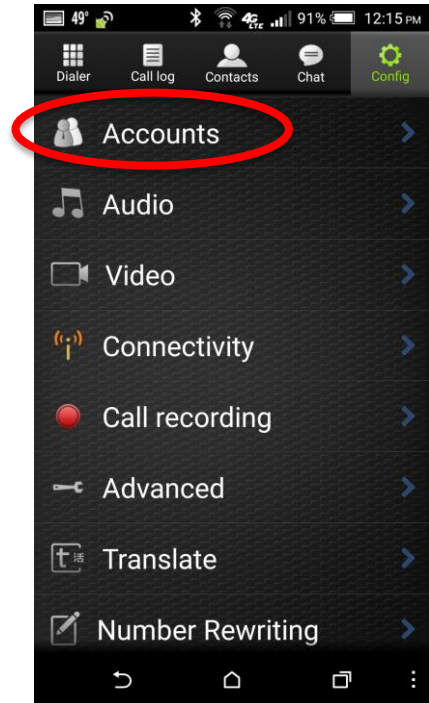


# Zoiper for Android

1. Open the Zoiper app 2. Choose Config

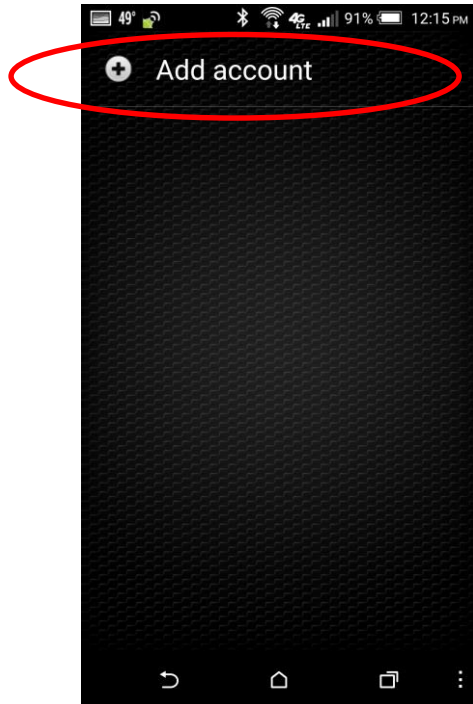


3. Choose Accounts

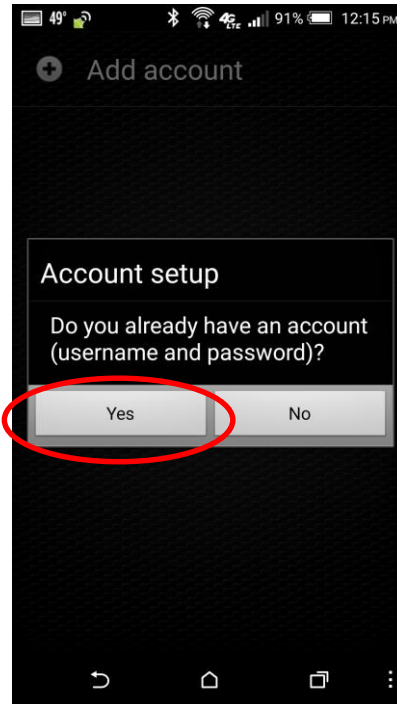




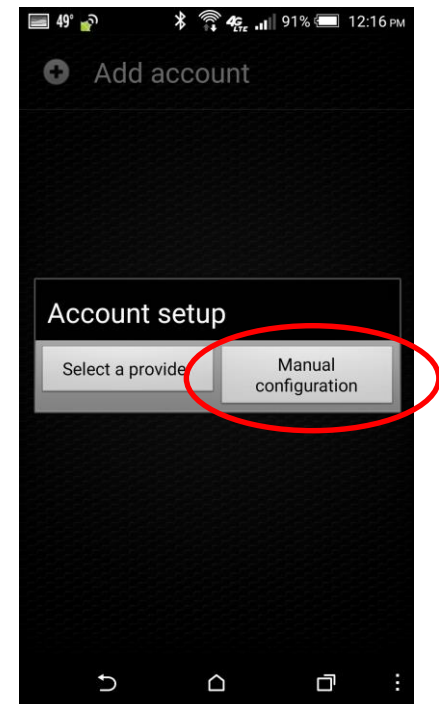
## 4. Add Account



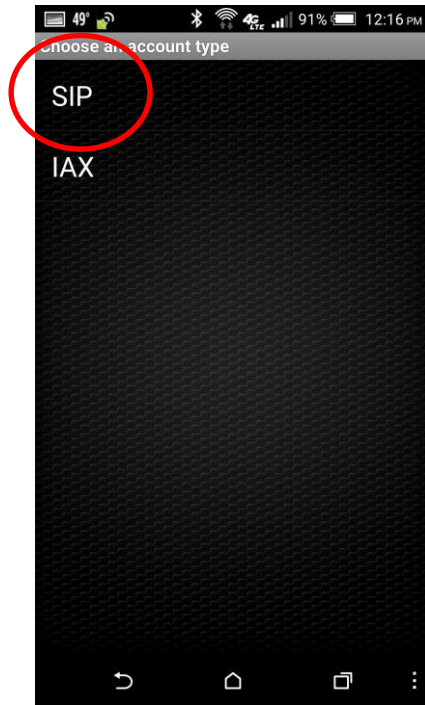
## 5. Choose Yes



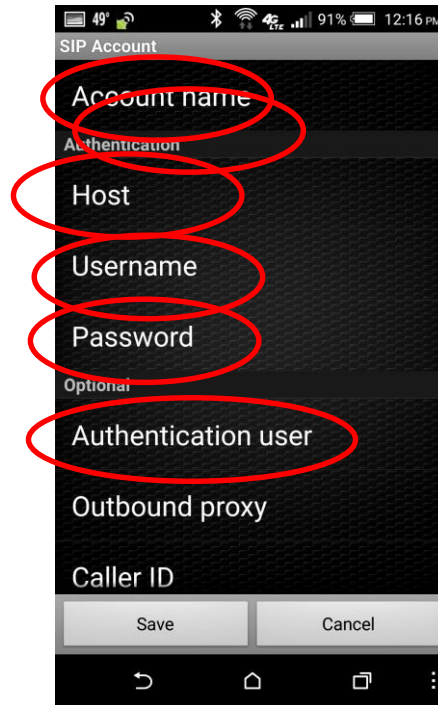
## 6. Choose Manual



## 7. Choose SIP



## 8. Set the following



Account name: Anything you want (ex. Panasonic)

Host: IP Address: MRG: SIP Proxy Port  
(ex. 11.22.33.44:15060)

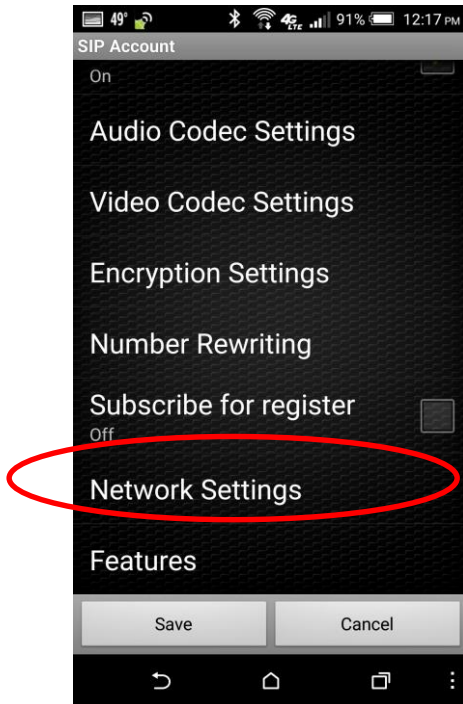
Username: Ext # (ex. 133)

Password: Password (ex. 54321)

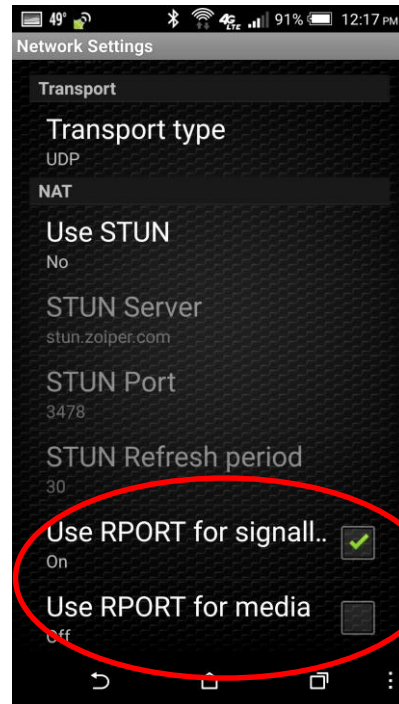
Authentication user: Ext # (ex. 133)

Note: Authentication user and  
Username must match extension #

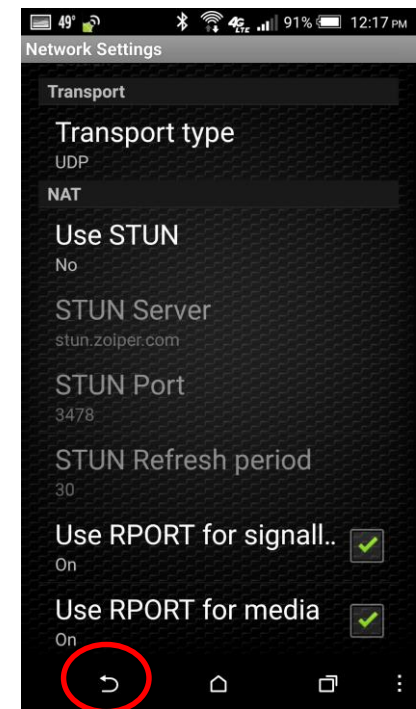
## 9. Network Settings



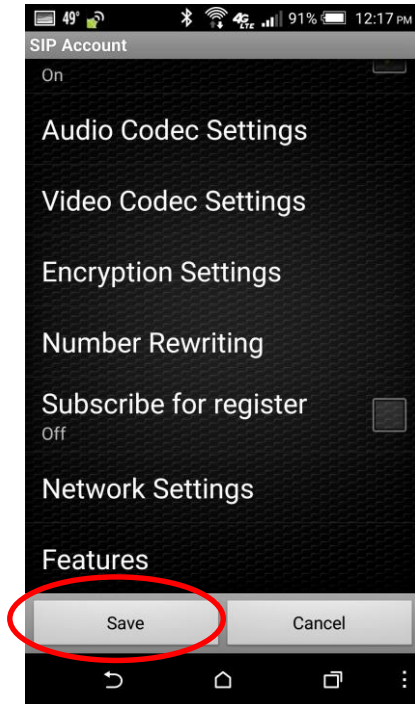
## 10. Use RPORT = Yes



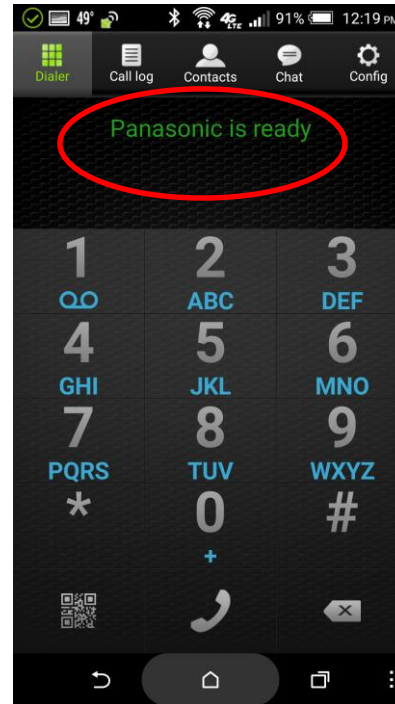
## 11. Choose Back



## 12.Save



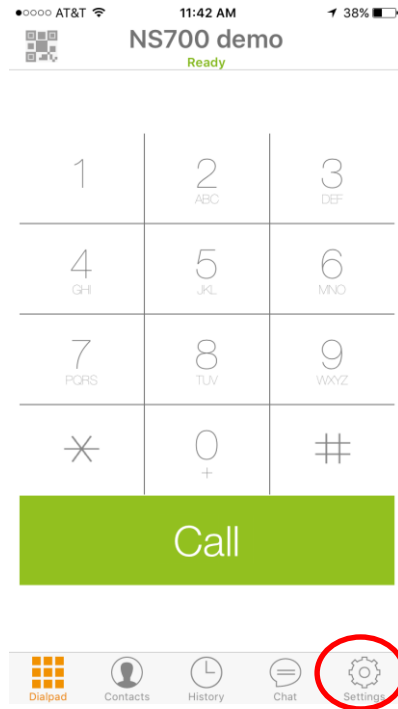
## Congratulations!



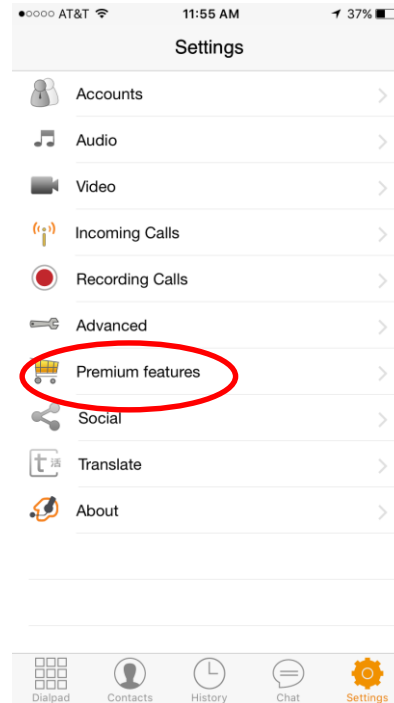
## Requirements:

- Purchase H.264 video codec within Zoiper Premium Application
- Enable H.264 video codec within Zoiper Premium Application
- Change media audio codec of NTV to G.711

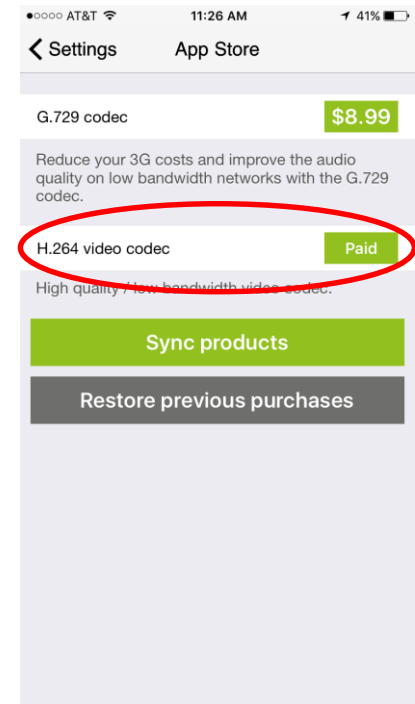
## 1. Choose Settings



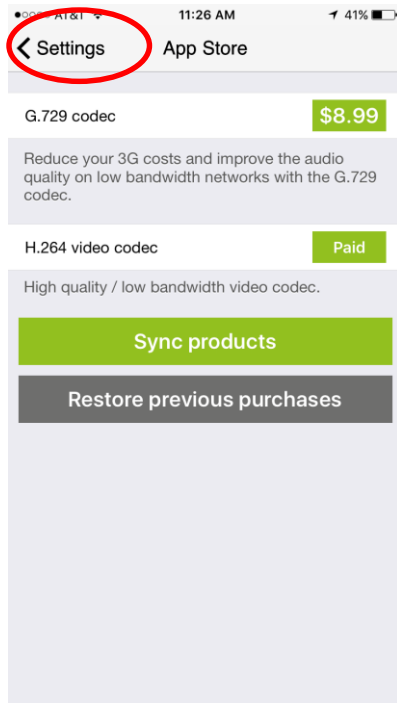
## 2. Premium Features



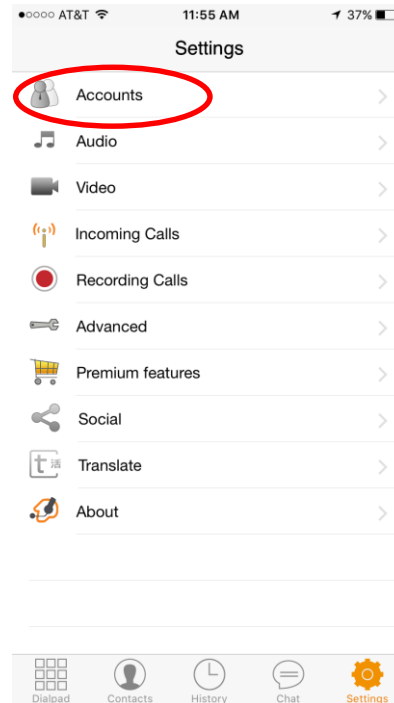
## 3. Purchase H.264



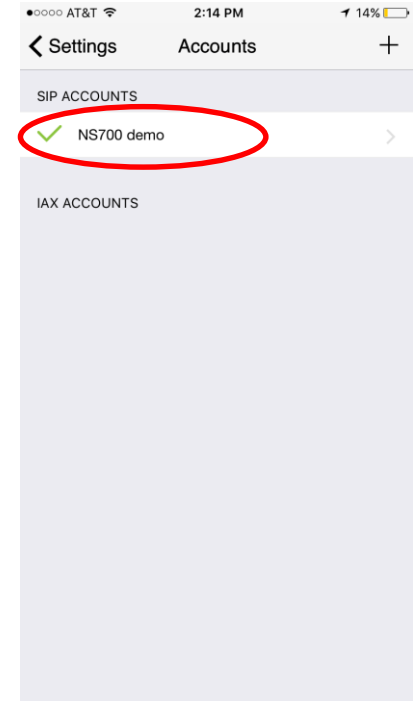
## 4. Choose Settings



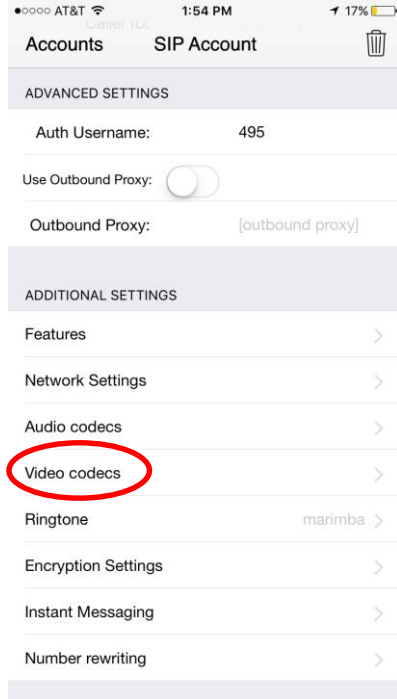
## 5. Choose Accounts



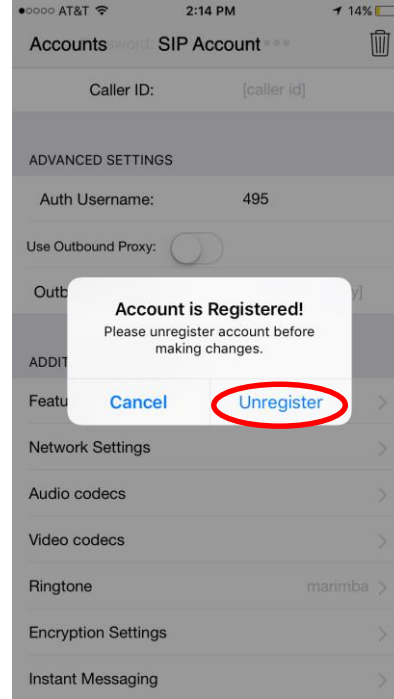
## 6. Choose Account



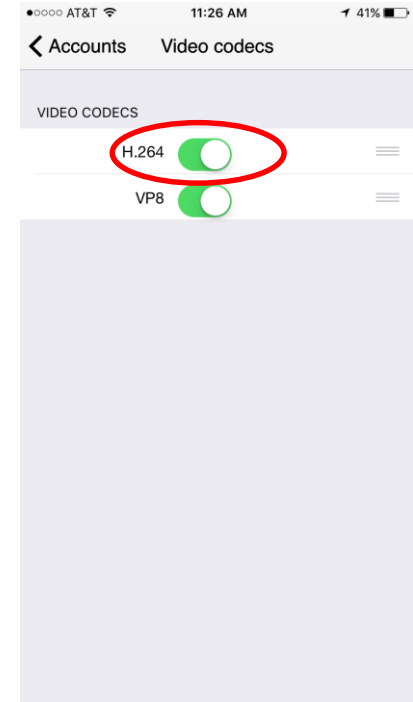
## 7. Choose Video codecs



## 8. Unregister Account

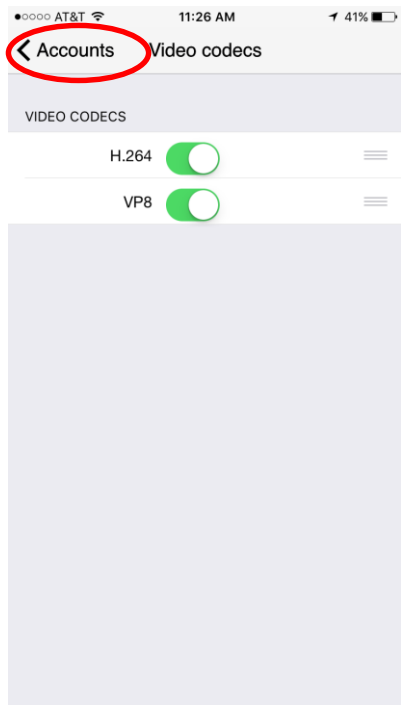


## 9. Enable H.264

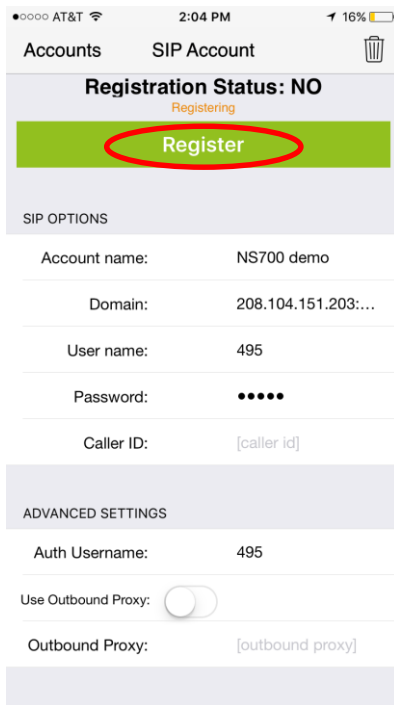




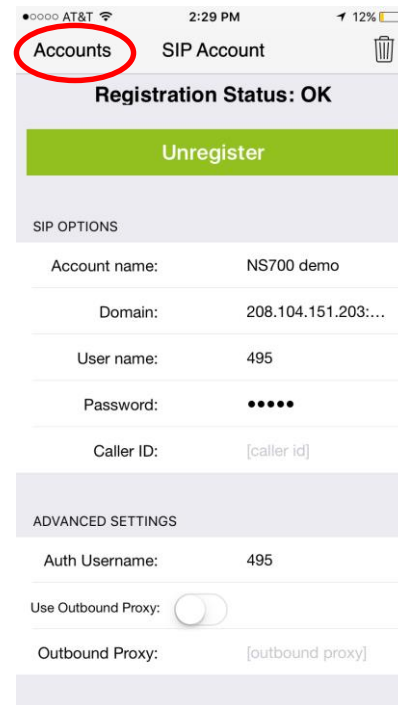
## 10. Choose Accounts



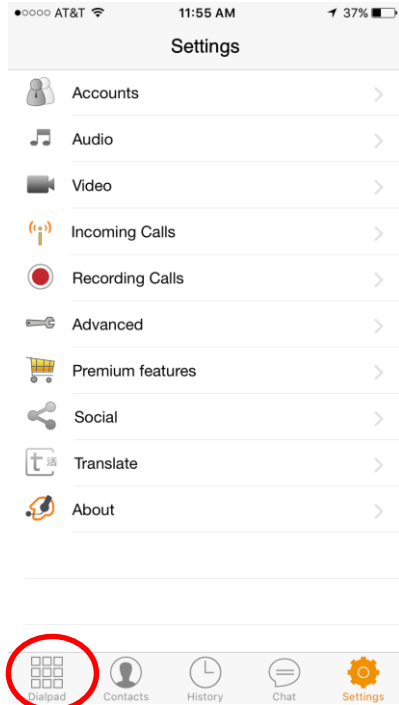
## 11. Choose Register



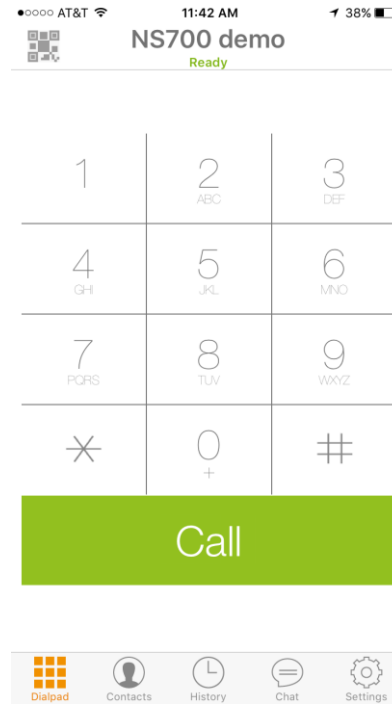
## 12. Choose Accounts



## 13. Choose Dialpad



## 14. Video codec setup completed



1. Log into NTV
2. Select Configuration
3. Select Media
4. Select Audio
5. Select Audio type
6. Change Audio type for SIP to G.711 and Save

The screenshot displays the Panasonic NTV web interface. The top navigation bar includes 'Panasonic', 'Home', 'Configuration', and 'Language'. The left sidebar contains a menu with categories: System, SIP, Media, Network, Security, PTZ, Event, Applications, and Recording. The 'Media' category is expanded, showing sub-items: Image, Video, and Audio. The 'Audio' sub-item is selected, leading to the 'Media > Audio' configuration page. This page has two tabs: 'Volume Control' and 'Audio type'. The 'Audio type' tab is active, showing two sections: 'Audio type (Codec) for RTSP' and 'Audio type (Codec) for SIP'. In the RTSP section, 'G.711:' is selected with a radio button, and a dropdown menu shows 'pcmu'. In the SIP section, 'G.711' is selected with a radio button, and a dropdown menu shows 'pcma'. A 'Save' button is located at the bottom right of the configuration area.

Thank you!