



# Hamshack Hotline: VOIP for Hams

Lake County RACES/ARES – 9/14/2020

Greg Perkins KC9GHZ



# What is Hamshack Hotline?

- ▶ A free, dedicated VOIP service for the amateur radio community.
- ▶ Intended to augment RF communications – provides full duplex path when RF channels are unavailable.
- ▶ Also very useful for off-loading operations and logistics from the RF channels.
- ▶ Also supports fax services for sharing data between locations.
- ▶ Ability to link RF channels to the VOIP network.
- ▶ Supports use of affordable and widely available Cisco VOIP equipment – either VOIP phones or ATA adapters to connect to POTS equipment.
- ▶ Also supports use of SIP softphone applications on computers and smartphones.



# What is needed to join?

- ▶ Callsign
- ▶ Supported hardware (or unsupported if you have VOIP experience)
- ▶ Phone model number
- ▶ Phone MAC address

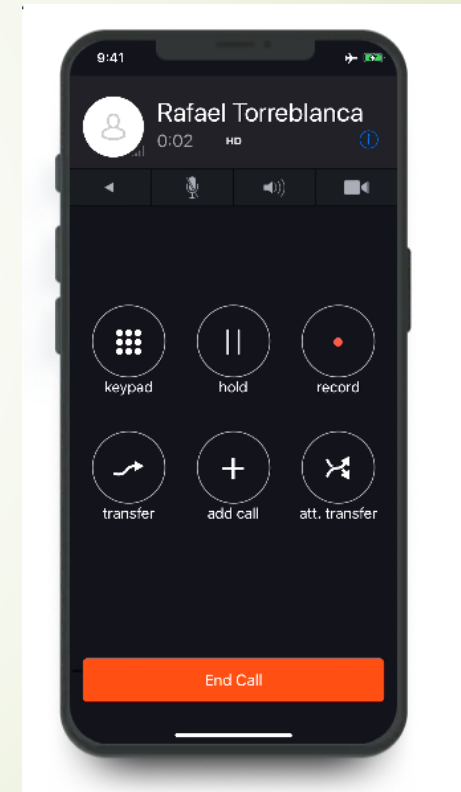
# Supported End-User Hardware

- ▶ Cisco SPA-112: 2-line Analog Telephone Adaptor (ATA) to connect POTS equipment.
- ▶ Cisco SPA-202: 3-line VOIP desk speakerphone
- ▶ Cisco SPA-504g: 4-line VOIP desk speakerphone with LCD backlight and PoE
- ▶ Cisco SPA-514g: Identical to SPA-504g but has gigabit ethernet
- ▶ Linksys/Cisco SPA941/942: Older Linksys phones now supported
- ▶ Other Cisco equipment will likely work but is not officially supported



# App for Smartphones

- Acrobits Groundwire
- [www.acrobits.net](http://www.acrobits.net)
- Available for iOS and Android
- Other SIP software will work as well
- Required to register one hardware phone before an extension for SIP use will be granted.



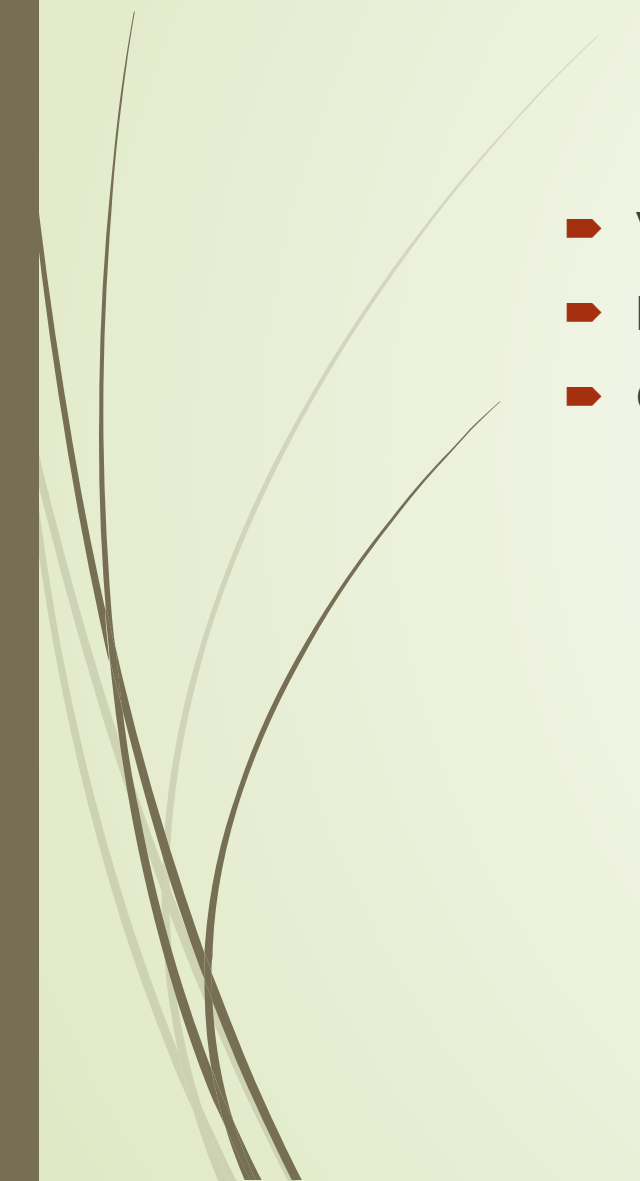


# Basic Features on Every Line

FEATURE	NETWORK	CODE
VOICEMAIL	HHC	*97
BLACK LIST A NUMBER	HHC	*30
REMOVE BLACK LISTED NUMBER	HHC	*31
DO NOT DISTURB ACTIVATE	HHC	*78
DO NOT DISTURB DEACTIVATE	HHC	*79
WAKE UP CALLS	HHC	*68
LAST CALL CALL INFO	HHC	*69
ECHO TEST	HHC	*43
SYSTEM CLOCK	HHC	*60
SET A SPEED DIAL	HHC	*75
SPEED DIAL PREFIX	HHC	*0(XXX)



# Voicemail

- ▶ Voicemail account for every number on the system
  - ▶ Easy to use
  - ▶ Great for contacts when you're away from the shack
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# Conference Bridges

- ▶ Conference bridges are available for nets and group conversations
- ▶ Publicly available and private options
- ▶ Currently 106 active bridges, many of which are public
- ▶ <https://apps.wizworks.net:9091/bridges.php>



# Ring Groups

- ▶ Organizations such as RACES/ARES or clubs can set up a group for their members that will ring all phones at once
- ▶ Can be used by organization staff to notify members of activations at the same time
- ▶ Organization staff can also leave mass voicemail messages for the group



# RF Links

- ▶ Set up a node on the AllStar network
- ▶ Use open-source Asterisk PBX to integrate with Hamshack Hotline
- ▶ Can be configured on most Linux distributions, including Raspberry Pi
- ▶ If you can get your radio and audio interface to talk to Asterisk, you can link it to Hamshack Hotline
- ▶ <https://drive.google.com/open?id=1zC6WPD2FbXbul-PIJL41AyQIW8nDArov>



# User Directory

- ▶ Look up other users by name or callsign
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# VOIP Hurricane Net

- ▶ Lloyd KC5FM has set up a link from Hamshack Hotline into the VOIP Hurricane Net (linked with Echolink, DMR, YSF, IRLP, AllStar, P25, C4FM etc.)
- ▶ Extension 94032
- ▶ To key: \*99
- ▶ To unkey: #



# How to sign up

- ▶ Create an account on the HH helpdesk site
  - ▶ <https://apps.wizworks.net:9090/>
- ▶ Create a ticket requesting an account
- ▶ New accounts usually issued in 24-48 hours
- ▶ Follow instructions to install settings in hardware
- ▶ Helpdesk site has easy to read documents regarding all aspects of account setup.



# Questions?

- ▶ [hamshackhotline.com](http://hamshackhotline.com)
- ▶ [facebook.com/groups/hamshack](https://facebook.com/groups/hamshack)