1. AllStarLink (ASL) is an amateur radio system which allows connecting radios, repeaters, and computers to create a network accessible around the world.
   a. Because so many systems and items interconnect, the user needs to have multiple accounts: FCC Ham License, AllStarLink.org website, and Raspberry Pi operating system.

2. AllStar is a program shell around the Asterisk telephone PBX, which lets you hang devices linked to ham radio, then call them from the keypad. This is a connection interface for smart phones and radios.

3. USER ID: This process will require identification information at least three times. You will need email address, a password for each, a user ID, and a number associated with each. Record these.

4. FCC: The callsign must be validated with the FCC for some apps. Before loading, collect FCC identification including the FRN, callsign, email, and password registered with FCC.

5. ALLSTARLINK: AllStarLink is a PBX system for communicating between phone numbers (nodes).
   a. Create an account at https://allstarlink.org and click <Sign Up>. It may take a few hours.
   b. Once you have an account, request two node numbers.
   c. Login. Go to > Portal > Servers. Give the first server a name to remember.
   d. Give the second server a name.
   e. Go to > Portal > Nodes. Associate each node number with a server. Each can have a different password.
   f. I would suggest the first node (ends in 0) be simply your callsign (KI5xxx). Use this with your cellphone.
   g. Make the second node a link, your callsign-L (KI5xxx-L). use this with your Raspberry Pi.
   h. You will come back to this screen several times. Registered = yes, means ASL sees your node running.
   i. Record your email, password, node number, and callsign used.
   j. These will be used to configure your nodes.

6. NEXT VISITS: After you construct the Link node with a Raspberry Pi, come back here to download firmware and check to see if you are connected.

7. PI OPERATING SYSTEM: At this point a computer is needed. We are using the Raspberry Pi.
   a. Download the Operating System from www.AllStarLink.org.

8. INITIALIZATION: Multiple meus are required to configure the AllStarLink. These will require all the passwords you have created.

9. OPERATION: Fortunately, operation is very simple. You only need the phone number (node number).
   a. Integration is MUCH easier than DMR, Fusion, or D-Star without the proprietary overhead.
   b. The system allows node to node radio and bubble networks.
   c. It is just a phone system at this point. DTMF keypad calls and controls the station.

Complete node + another radio

10. Life is good. Enjoy!

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