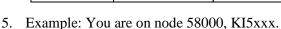
Ham 47B - ASL User: Ops with DTMF

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- 1. Why AllStarLink? The system uses analog RF to a duplex repeater / simplex radio, which connects through a sound card interface to a Raspberry Pi on the internet. The digital side uses AllStarLink PBX protocol to connect and control other radios and computers using a DTMF keypad.
 - a. AllStarLink connects RF systems.
- 2. With AllStarLink, your signal is on a radio & computer. If linked, you are on remote repeaters.

 Listen before connecting. On your radio, key the mic and transmit your ID. While keyed, send the tones. Wait a couple of seconds for the network exchange. Listen for tones when things change.
- 3. You need the node (phone) number for connection and control.
 - AllStar node numbers: http://stats.allstarlink.org/.
 - Evergreen: KI5UNR-R, 584801
- 4. Common DTMF codes are listed with optional system commands.

DTMF	Commands	DTMF	System Commands
*1 [node]	Unlink specific node	*712	Give time local
*2 [node]	Connect to node, receive only	*721	Force system ID global
*3 [node]	Connect to node, transceive	*806	Disconnect all links
*70 [node]	System status, local connections	*807	Last node to key up
*76	Disconnect all links	*815	Global connections status
*99	Assert PTT from phone	*816	Reconnect all disconnected



- You wish to link to Evergreen node 584801. Connect only with approval of both system operators.
- Key up, say your callsign, and enter: *3 584801.
- If the node doesn't speak an error, you are connected. Evergreen & your link are one.
- Give your ID again, and make your call just like on a radio or announce you are listening if you want to chat.
- 6. Example: You are on a radio through the simplex link, 58000.
 - You wish to see what is linked through Evergreen repeater 584801
 - Key up, say your callsign, and enter *815 584801.
 - The node will read back everything connected.
- 7. Example: You are on a radio through simplex link, 58000.
 - You wish to connect to remote hub node 584801, but do not want to interfere with activity.
 - Key up, say your callsign, and enter *2 584801, for receive only.
 - Transmission on simplex link will not go to remote hub.
 - Activity on remote hub will be heard on simplex link.
- 8. Example: You are in receive only, but wish to initiate transceiver to talk.
 - Key up, say your callsign, and enter *3 584801.
 - You are connected. Give your callsign again, you are on the radio.
- 9. Life is good. Enjoy!



Wait for xmit about 2 secs. *Finish Talking or DTMF:*

Wait to release key about 1 sec. The radio, computer, and internet take time to process.







