# Using EchoLink or IRLP on the GGARC 447.35 Repeater

Here are some instructions that should help get you comfortable using either EchoLink or IRLP on the GGARC 447.35 repeater. It is here for Hammin Sams members to use; especially when members are out of town and want to participate in the weekly net. Remember that a 151.4 hertz CTCSS tone is required to access the repeater.

Speaking of nets, the best way for members to 'dial-in' to the weekly net is to install the EchoLink app onto a smartphone or a PC with access to a good network. Once the app is installed and your license validated, start the app and search for and then connect to the EchoLink node K0IRP-R. If you are in an area that has a repeater with an IRLP interface then using that repeaters IRLP instructions connect to node 3690 which is the IRLP node number for K0IRP-R interface. By the way, Net Controls should consider calling for remote check-ins separate from any local checkins to allow for the additional delays.

Both EchoLink and IRLP are also useful for connecting to remote systems to include conference bridges ('reflectors') in many parts of the world. Before you ask, I'm told that talking to DX via either protocol does not count for credit in any DX awards. You can find likely nodes by looking at ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚ or ⬚⬚⬚⬚⬚⬚⬚⬚⬚.

EchoLink: Here are the instructions for when you wish to use EchoLink to access a remote system:

1. Press the PTT and give your call then state that you wish to access EchoLink and release the mike.

2. Press the PTT again, wait a second and then dial 73 to ensure you are disconnected from any existing connection. You will hear a message indicating the reflector link is clear. If you do not hear anything then the local repeater is not connected to any other system.

3. Press the PTT a 3rd time, wait a second and then dial the STAR followed by the node number for the node you wish to be connected. Note connecting to node *9999 will echo back anything you say.

A few seconds after releasing your PTT, you should hear a message indicating you are connected. If there was a problem with the call you will receive an error message.

When done, dial 73 to break the linkage with the remote system.

IRLP: Here are the instructions for when you wish to use IRLP to access a remote system:

1. Press the PTT and announce your call. Please wait a second or 2 after keying up before speaking. State your call and indicate that you wish to access IRLP and release the mike.

2. Press the PTT again and dial 73 to ensure you are disconnected from the reflector. You will hear a message indicating the reflector link is clear. If you do not hear anything then the local repeater is not connected to any other system.

3. Press the PTT a 3$^{rd}$ time, wait a second and then dial the four digit node number for the node you wish to be connected. Note connecting to node 9990 will echo back anything you say.

A few seconds after releasing your PTT, you should hear a message indicating you are connected. If there was a problem with the call you will receive an error message.

When done, dial 73 to break the linkage with the remote system.

On either system please remember to wait a couple seconds after pushing PTT and before transmitting in order to make sure that all the connections are made electronically. The rule of thumb with either EchoLink or IRLP is to leave longer breaks between transmissions in order to ensure that the tails on repeaters have dropped.

Have your QSO, issue a short CQ or simply listen to see what activity might be available. When you are finished and want to disconnect, indicate you are disconnecting and dial 73 to release the system. As noted above you will hear a message saying the link is now clear.

In brief please remember, on:
- EchoLink dial STAR and then a 5 or more digit node number connects to the remote node and 73 disconnects the linkages.
- IRLP dialing a 4 digit node number brings up a system, 73 disconnects.

For questions please contact Don Fraser, WA9WWS node manager via email to