IRLP & EchoLink Made Easy

Over The Air Learning

VA3XPR

The New Voice of Downtown Toronto

Today's agenda

- **Turn OFF** you CTCSS Tone (Continuous Tone Coded Squelch System) on your radio
- What is IRLP?
- How to use IRLP?
- What is EchoLink?
- How to configure & use EchoLink?
- Who can you talk to on IRLP & EchoLink?

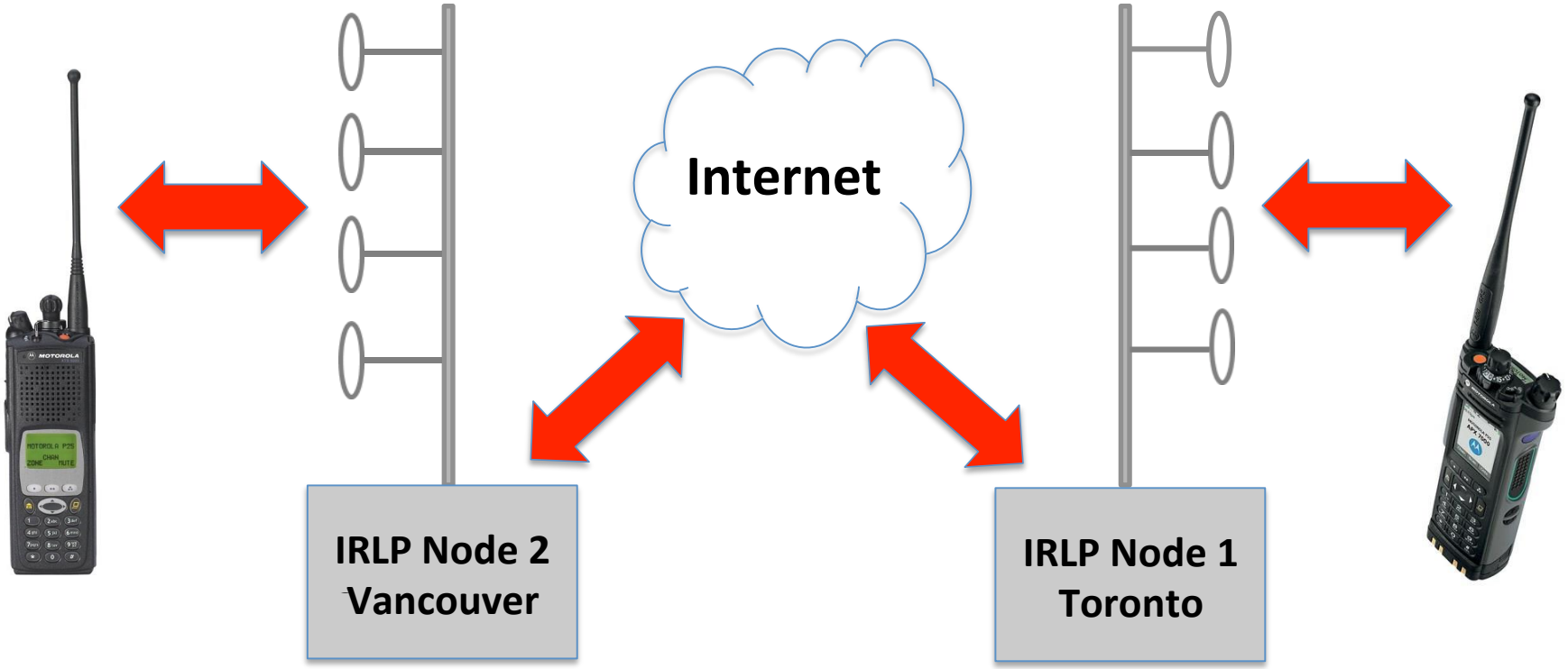
What is IRLP?

- IRLP = Internet Radio Linking Project
- Started in 1997 by David Cameron, VE7LTD
- Allows amateur radio systems to be linked together using the Internet
- Nearly 3,000 IRLP nodes around the world

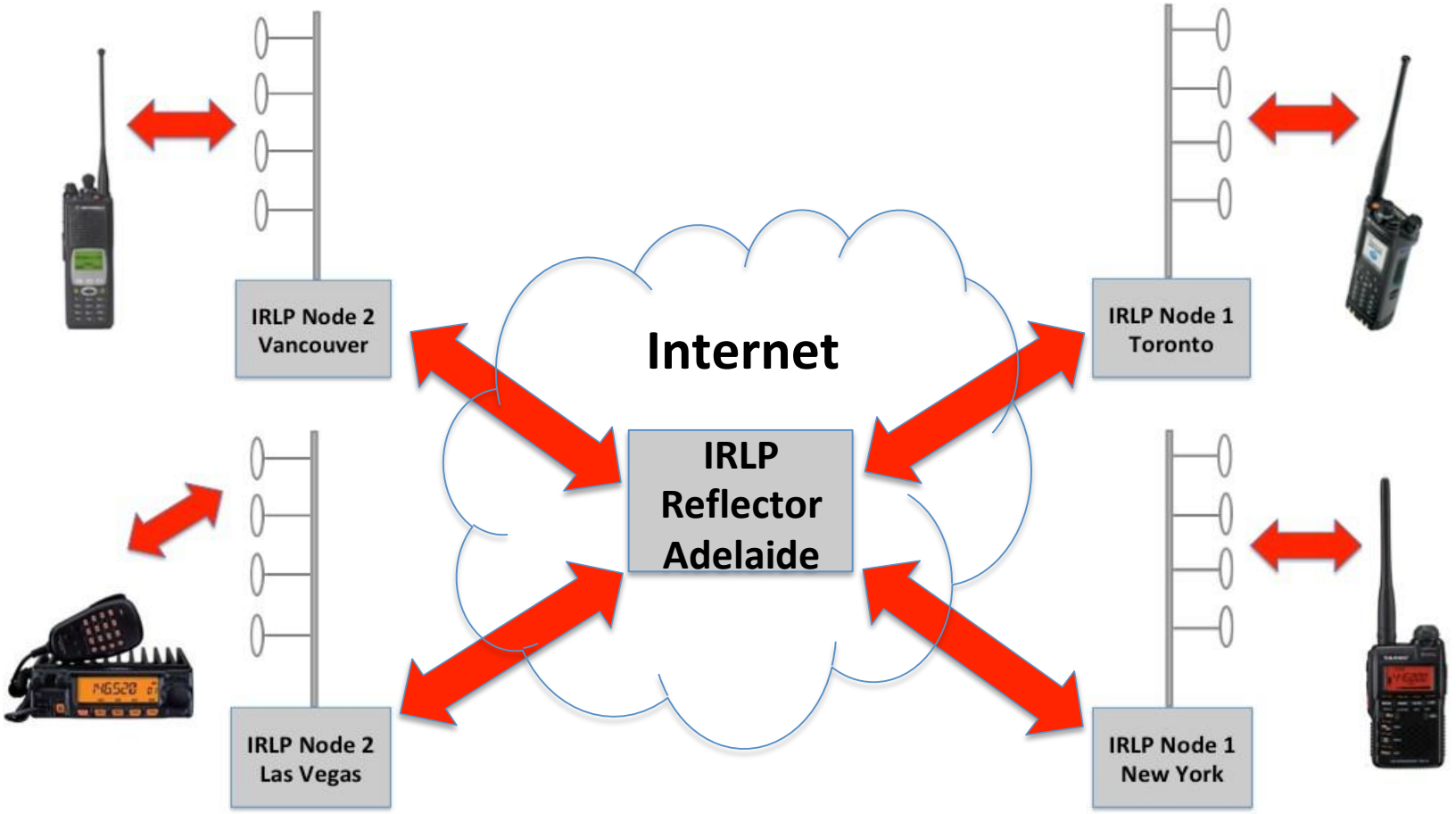
IRLP Terminology

- **Node**
  - A computer that allows access to the IRLP network – Example: a telephone
- **Reflector**
  - A computer that allows multiple nodes to communicate with one another at the same time
  - Reflectors can support 9 simultaneous conversations. Example: a telephone conference bridge

IRLPNode to Node Communications



IRLP Reflector Communications



How to Use IRLP?

- Find a nearby IRLP node
- Obtain permission to use it and the required access codes
- Review the IRLP usage guidelines
- Start making calls!

Finding a Nearby IRLP Node

- **Using a PC or Mac**
  - Go to Status.irlp.net
  - Search Repeaterbook.com

- **Using a Smartphone**
  - Download an app
    - IRLP*me
    - IRLP Finder

Obtaining Access to an IRLP Node

- **Obtain Permission from the node owner**
  - Node owners can be found on **status.irlp.net** under the node info.

- **Obtain the Required Access Code**
  - Many nodes are open and require no special access code

Review the IRLP Usage Guidelines

- **The Basic:**
  - ***IDENTIFY*** before and after using IRLP an node
  - ***PAUSE*** after keying and between transmissions
  - ***AVOID*** lengthy rag chewing or calling CQ

Find out more @ IRLP.NET

Making IRLP Calls

- **Connecting to another IRLP Node:**

Announce your call K???? Bringing up IRLP Node

—Enter *"IRLP NODE#"* **(XXXX***)*

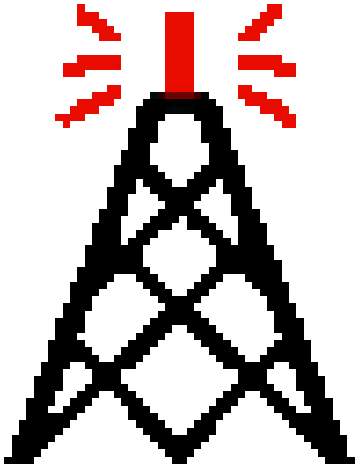
- **Disconnect from an IRLP Node:**

-Enter ***"73"*** **then announce your call K??? Clear**

- **Example**
  - You want to connect to a net on IRLP Reflector 9558 using an open IRLP node.
  - **Connect**: Enter **"9558"**
  - **Disconnect**: Enter **"73"**

What is EchoLink?

- Created by Jonathan Taylor, K1FRD
- Allows amateur radio systems & operators to communicate using the Internet
- Over 200,000 EchoLink users around the world



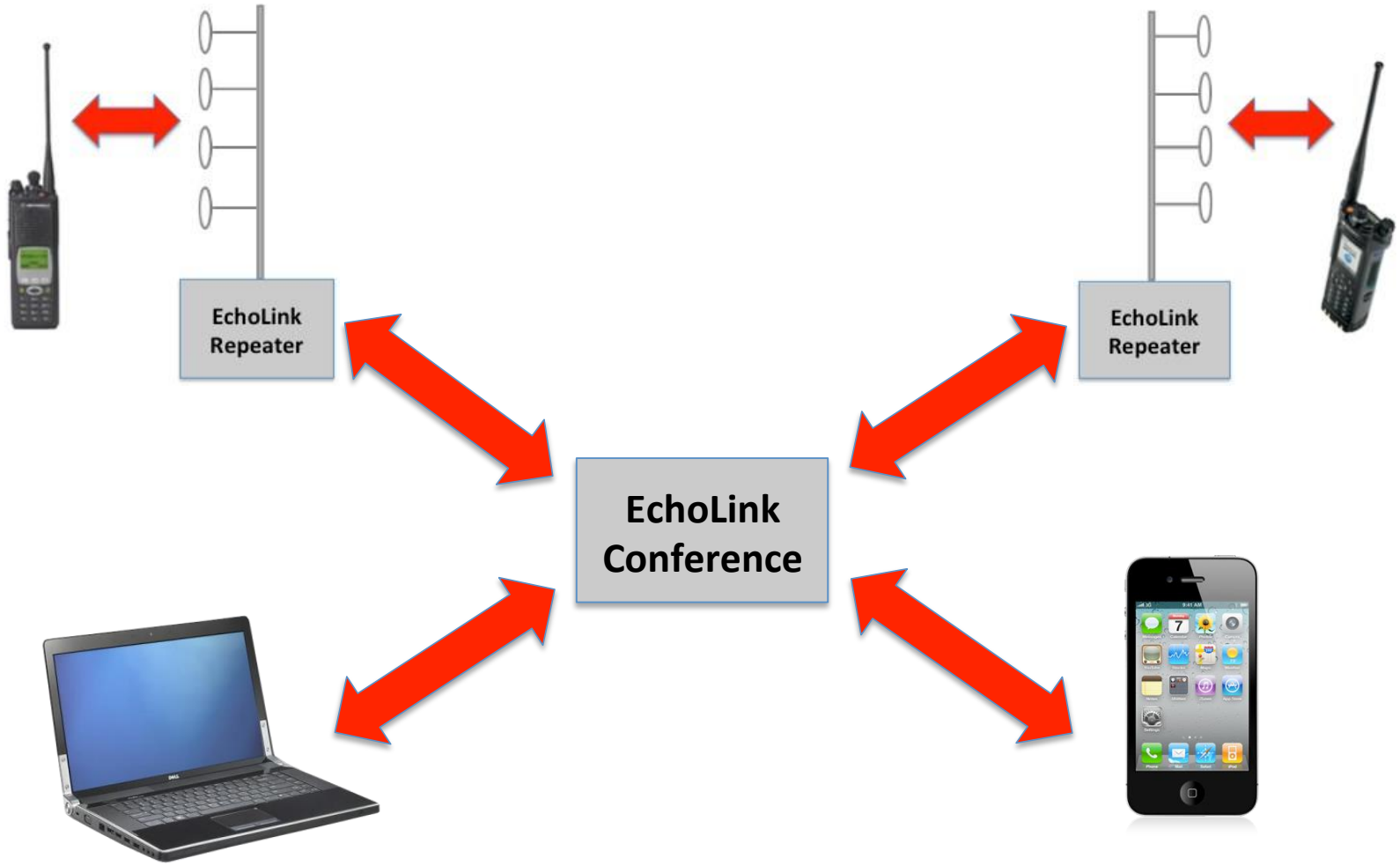
EchoLink Terminology

- **Users**
  - Typical EchoLink users
- **Links**
  - EchoLink connected to a simplex radio
- **Repeater**
  - EchoLink connected to a repeater
- **Conference**
  - Allow multiple EchoLink users to communicate simultaneously, like an IRLP reflector

EchoLink Terminology

- Usually oriented around a specific topic, region or language
- Allows only 1 conversation at a Time

EchoLink Conference Communications



Making EchoLink Calls

- **Announce your call K???? Bringing up EchoLink**
- **Connect to another EchoLink Node**
  - —Enter *" # plus EchoLink NODE# "* **(#XXXXXX***)*
- **Disconnect from an EchoLink Node**
  - Enter ***"73"*** **then announce your call K??? Clear**
- **Example**
  - You want to connect to EchoLink Node 152038 using RF on a local open EchoLink Node.
  - **Connect**: Enter "**#152038**"
  - **Disconnect**: Enter "**73**"

How to set-up and use EchoLink?

Download & install

1. EchoLink for your PC, Mac or Smartphone
2. Provide proof of license to EchoLink
3. Configure EchoLink with your call sign & details
4. Start making calls!

Downloading EchoLink

PC

Mac

iPhone

Android

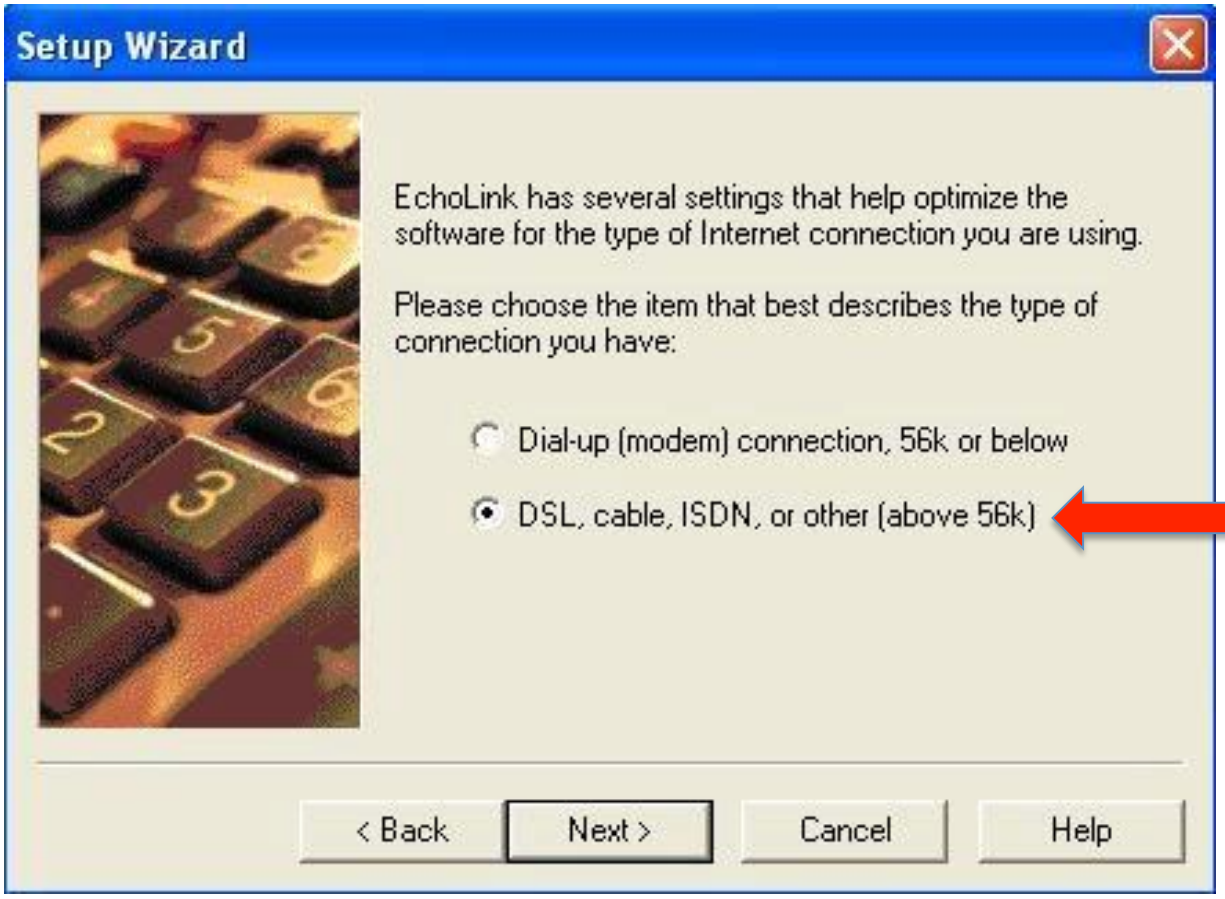
Available on the App Store

Google play

Echolink. Org Echomac.sourceforge.net

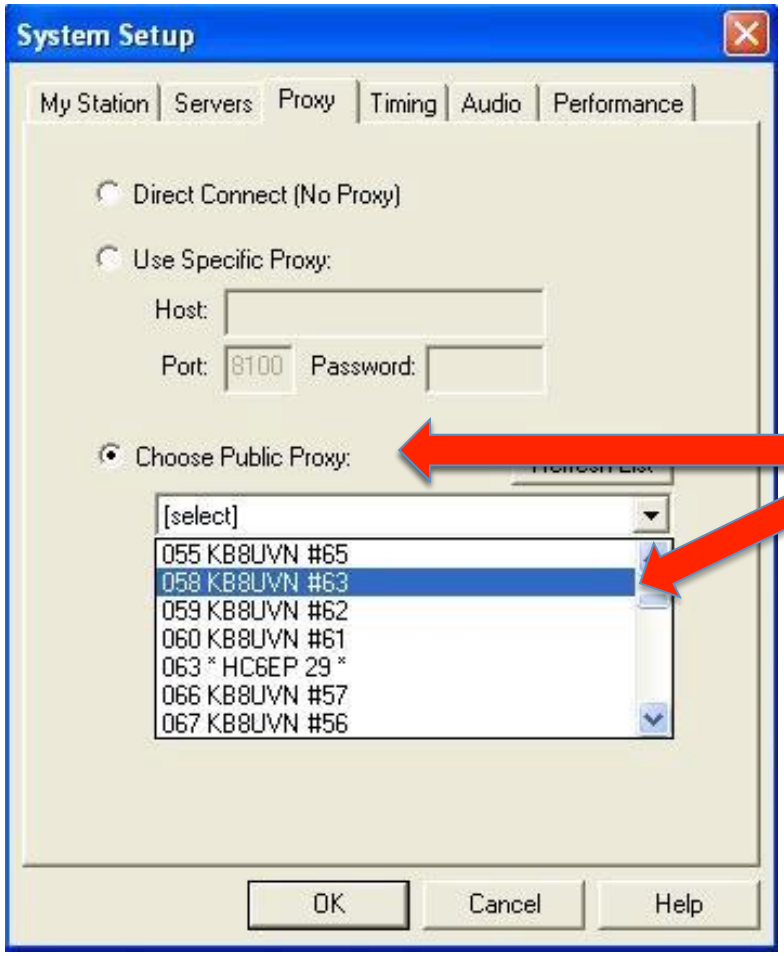
Setup Wizard
Please select one of the following:
Computer User
Select this option if you expect to use EchoLink using your PC's microphone and speaker only.
Sysop
Select this option if you intend to connect radio equipment to your computer and set up a link to a simplex frequency or a repeater.
Simplex Link
Repeater Link
< Back
Next >
Cancel
Help

Select

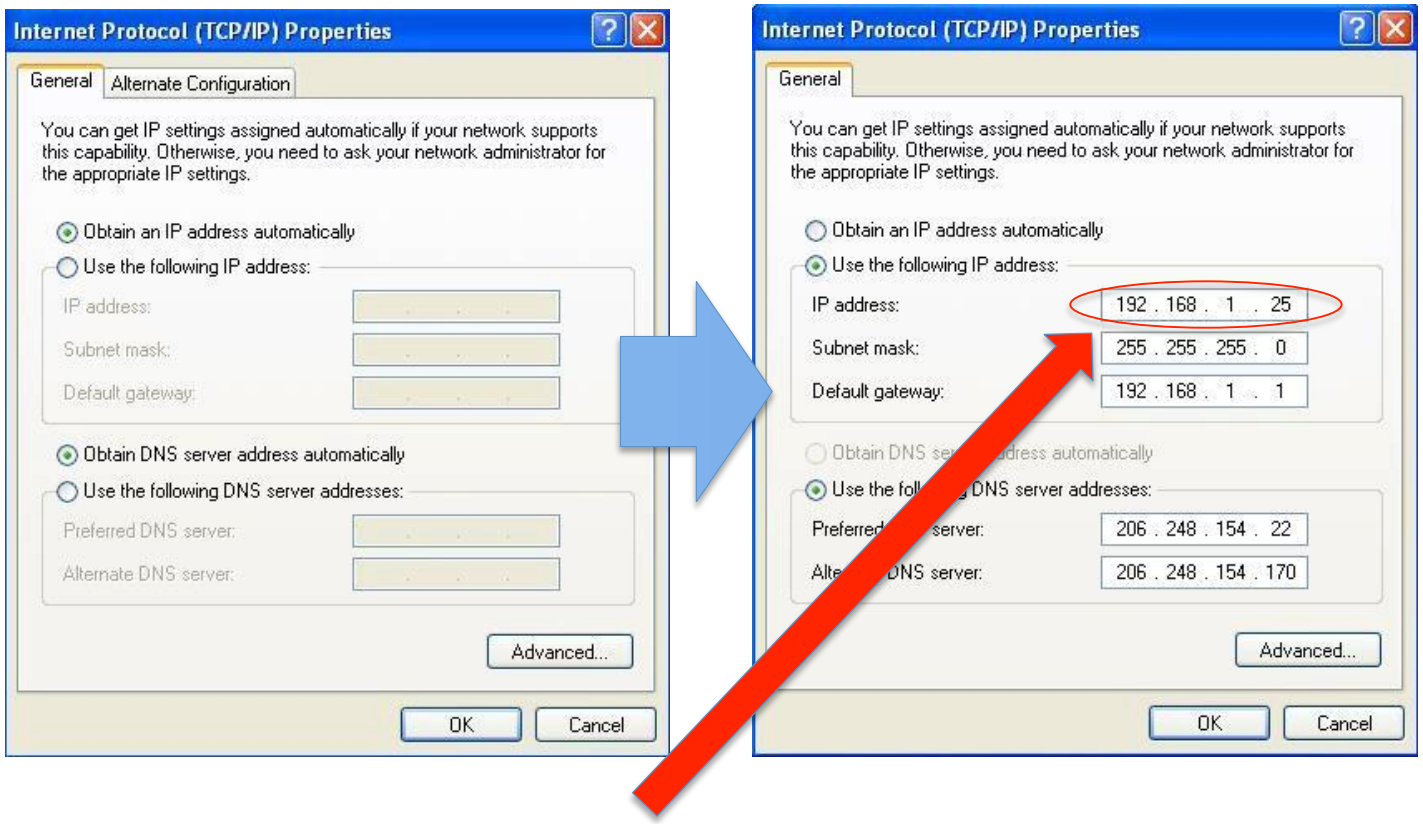

Setup Wizard
EchoLink has several settings that help optimize the software for the type of Internet connection you are using.
Please choose the item that best describes the type of connection you have:
Dial-up (modem) connection, 56k or below
DSL, cable, ISDN, or other (above 56k)
< Back
Next >
Cancel
Help

Select

Complete All

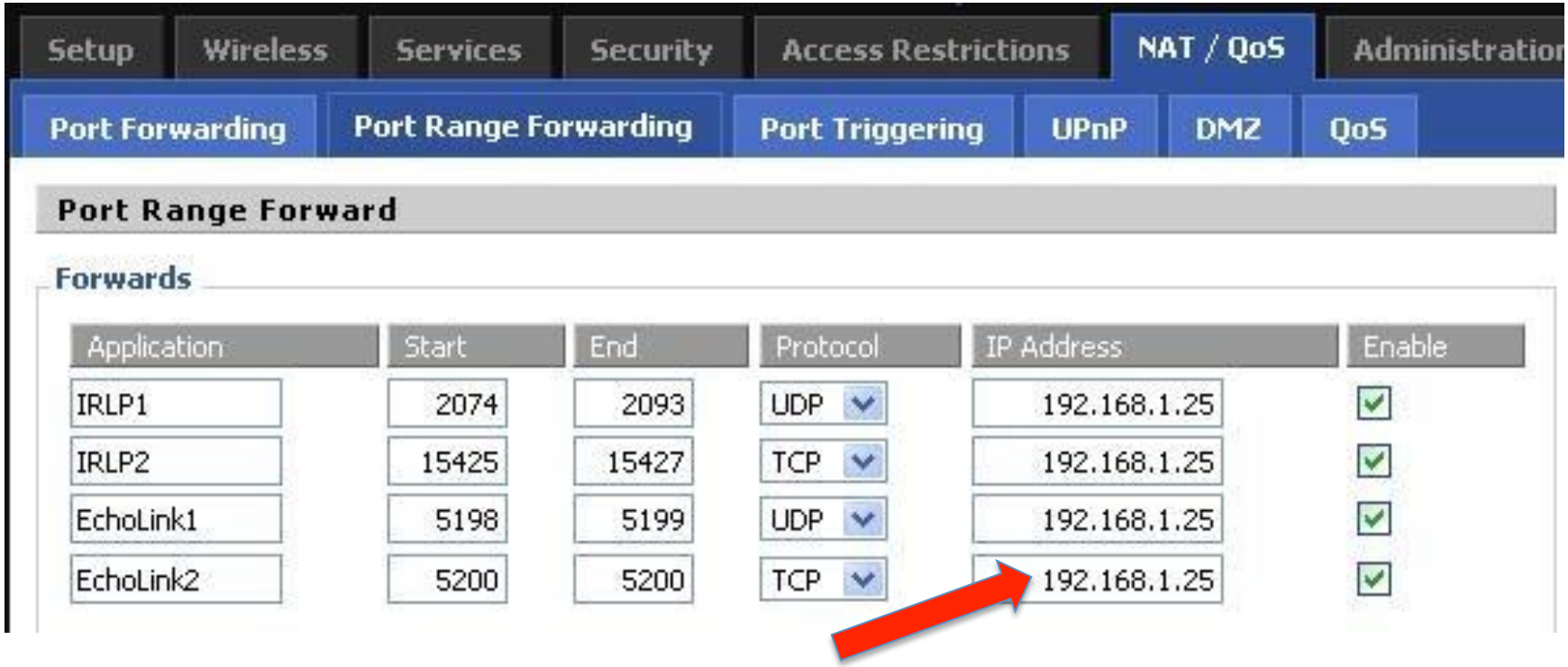

System Setup
My Station
Servers
Proxy
Timing
Audio
Performance
Direct Connect (No Proxy)
Use Specific Proxy:
Host:
Port: 8100
Password:
Choose Public Proxy:
[select]
055 KB8UVN #65
058 KB8UVN #63
059 KB8UVN #62
060 KB8UVN #61
063 * HC6EP 29 *
066 KB8UVN #57
067 KB8UVN #56
OK
Cancel
Help

Select



Static IP Address of your EchoLink PC

Firewall Configuration for IRLP and EchoLink

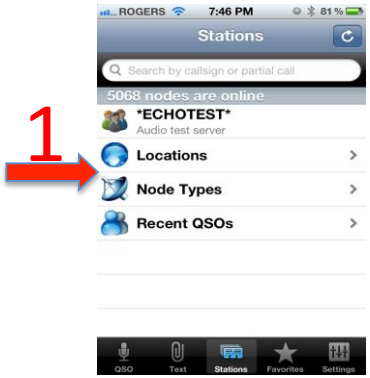


Static IP Address of your EchoLink PC

Provide Proof of License

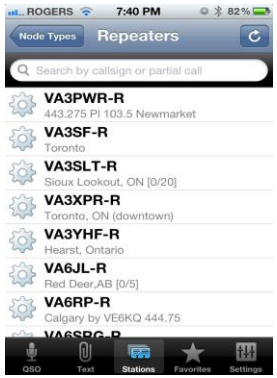
- Scan your Amateur Radio Operator Certificate, or equivalent into an supported image type
- Validate your information on the EchoLink website
- Submit your scanned Operator Certificate
- Validation should occur within a couple of days

Making EchoLink Calls using a Smartphone



1

2



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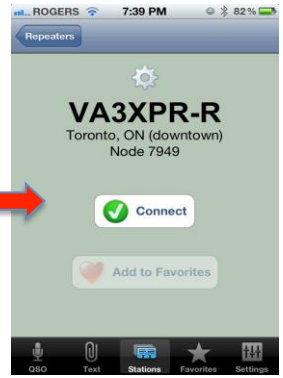


4

QSO Time!!!

5

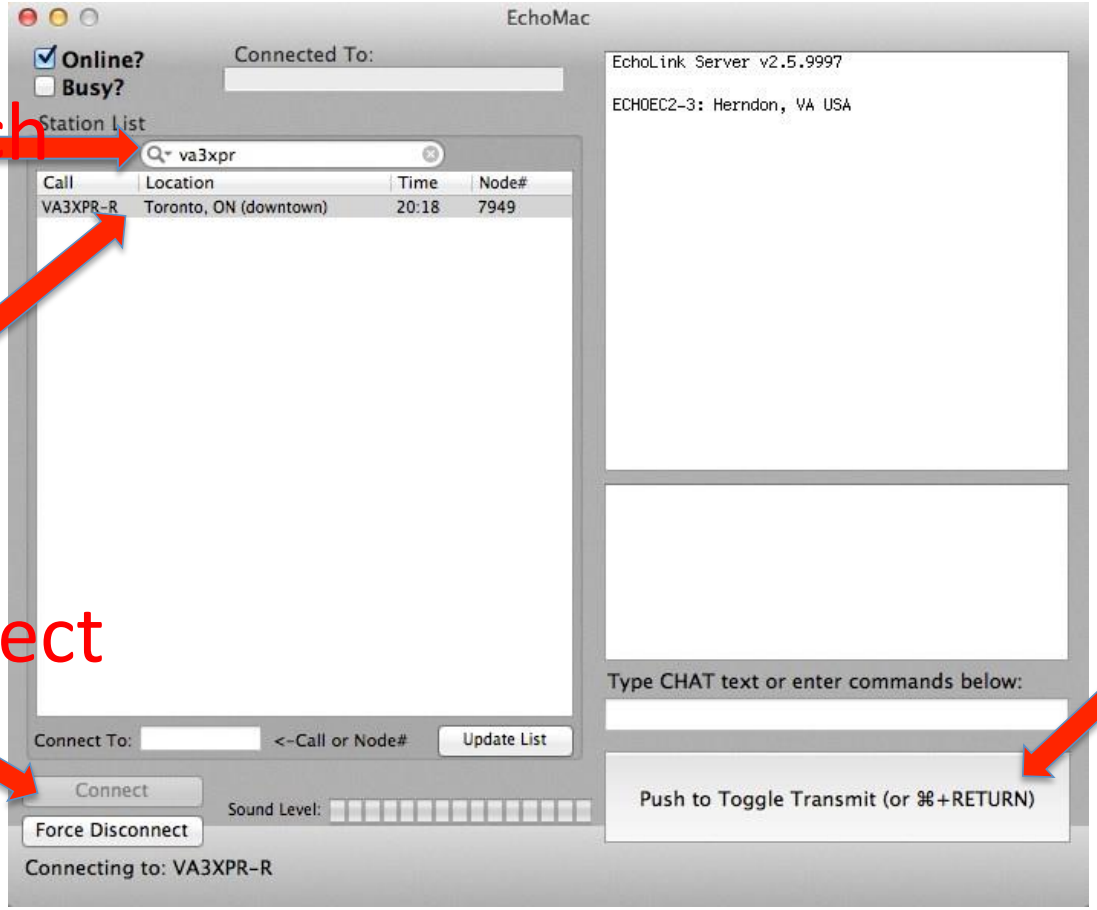
Making EchoLink Calls using a Mac

1. Search

2.

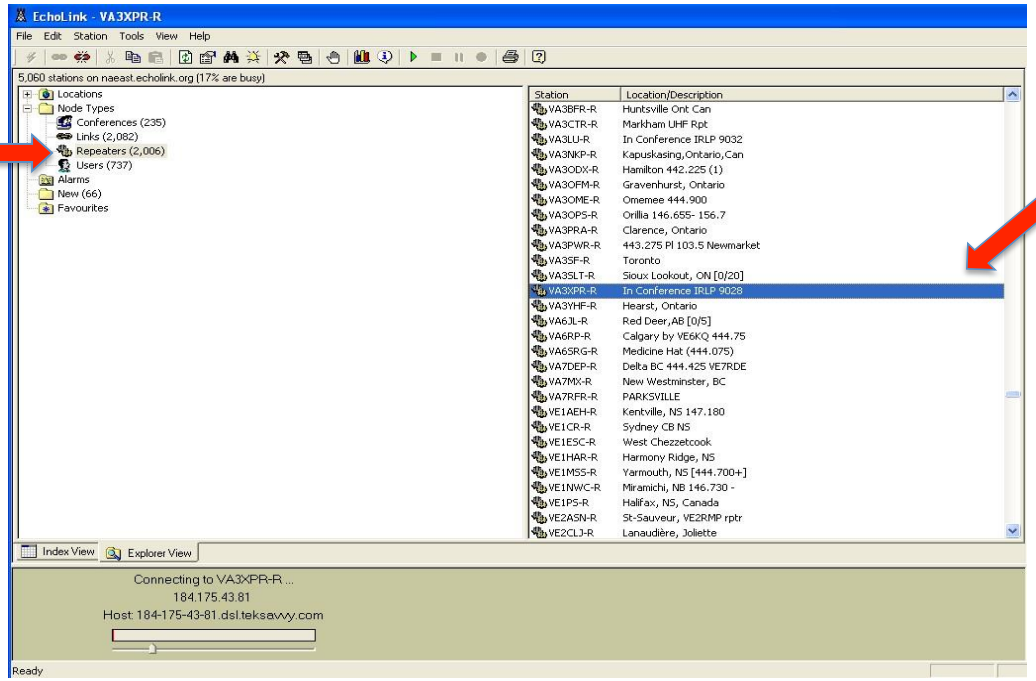
3. Connect

4.



Making EchoLink Calls using a PC

1.



2. Select Double Click

3. PTT = Space Bar

Who Can You Talk To?

- **Club or Social Nets**
- **Special Interest Nets**
  - Tech Nets
  - AMSAT Nets
  - Astronomy Nets
- **Events**
  - JOTA
  - Balloon launches

Questions?