



IRLP & EchoLink Made Easy

Over The Air Learning

VA3XPR

The New Voice of Downtown Toronto

Today's agenda

- 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?

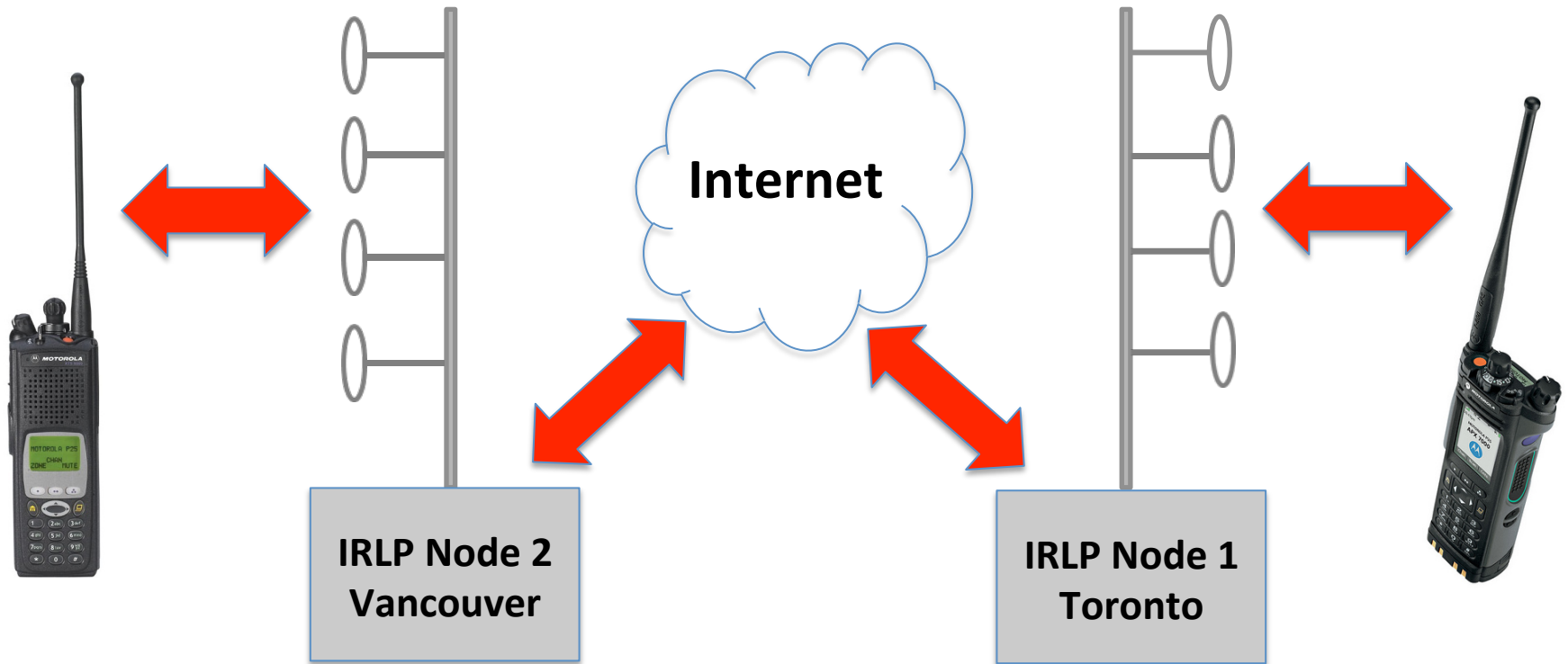
- IRLP = Internet Radio Linking Project
- Started in 1997 by David Cameron, VE7LTD
- Allows amateur radio systems to be linked together using the Internet
- Nearly 3,000 IRLP nodes around the world



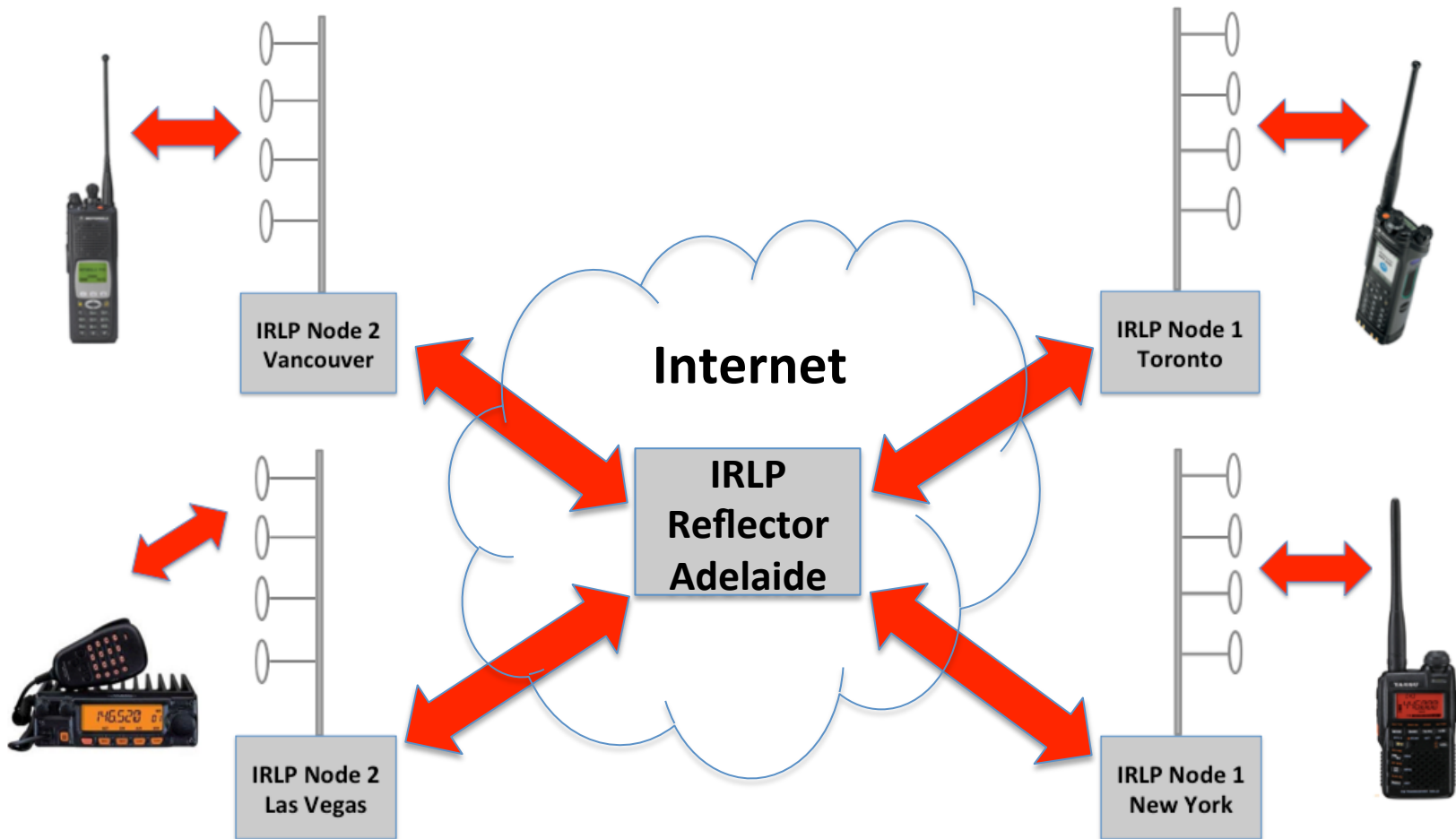
IRLP Terminology

- **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

IRLP Node to Node Communications



IRLP Reflector Communications



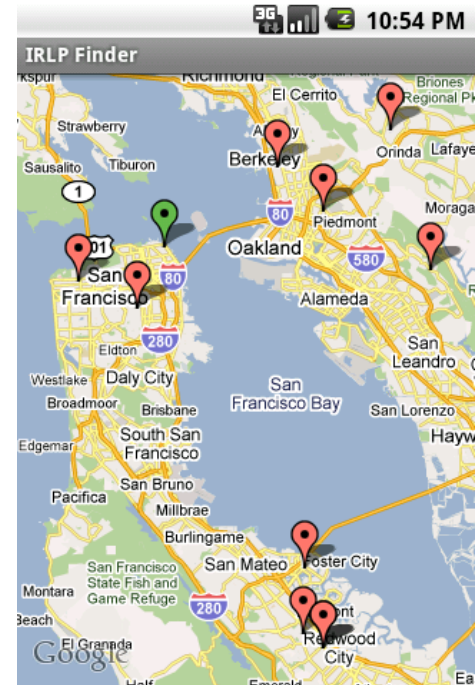
How to Use IRLP?

- 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

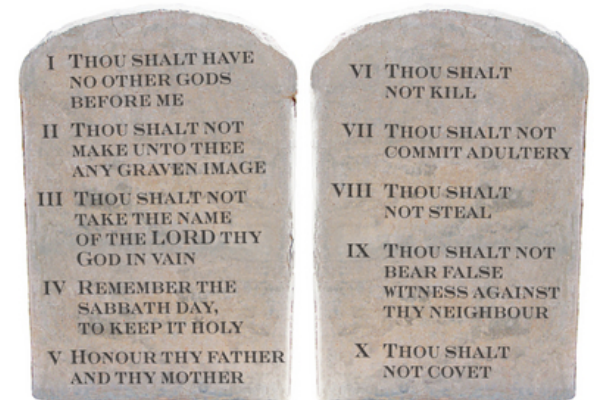


Review the IRLP Usage Guidelines

- **The Basics**

- **IDENTIFY** before and after using IRLP an node
- **PAUSE** after keying and between transmissions
- **AVOID** rag chewing and calling CQ

- Find out more @ IRLP.NET



Making IRLP Calls

- **Connect to another IRLP Node**
 - Enter “ACCESS CODE” + “IRLP NODE #”
- **Disconnect from an IRLP Node**
 - Enter “73”
- **Example**
 - You want to connect to a net on IRLP Reflector 9558 using IRLP node 2101. The Access code for node 2101 is 563.
 - **Connect:** Enter “5639558”
 - **Disconnect:** Enter “73”



What is EchoLink?

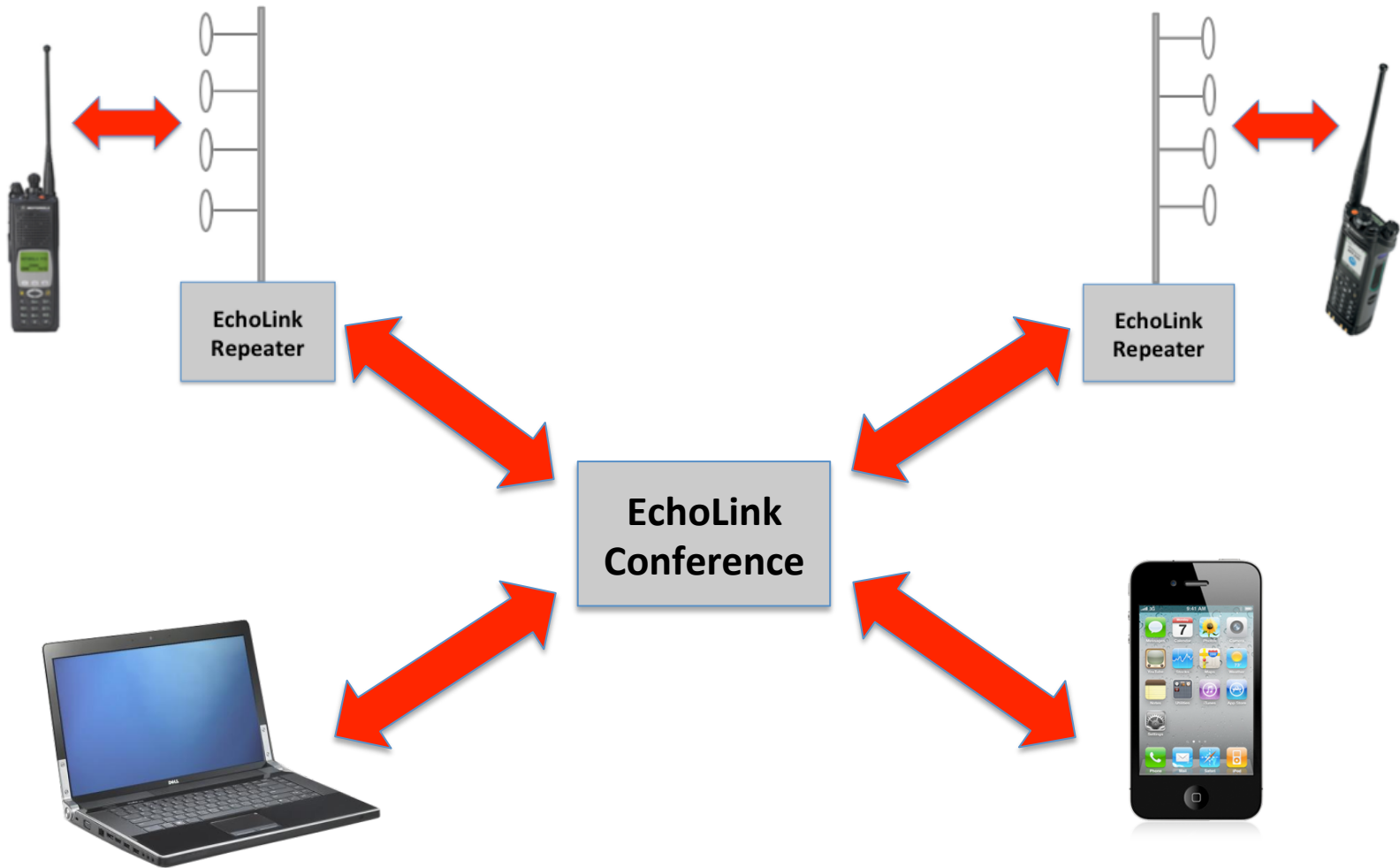
- Created by Jonathan Taylor, K1FRD
- Allows amateur radio systems & operators to communicate using the Internet
- Over 200,000 EchoLink users around the world



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

EchoLink Conference Communications



How to set-up and use EchoLink?

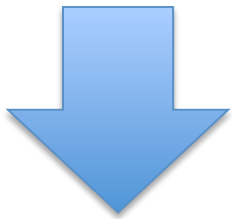
1. Download & install EchoLink for your PC, Mac or Smartphone
2. Provide proof of license to EchoLink
3. Configure EchoLink with your call sign & details
4. Start making calls!



Downloading EchoLink



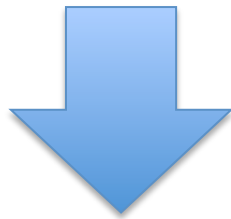
PC



Echolink.org



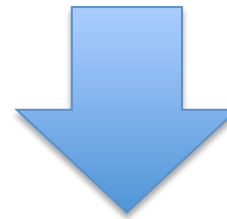
Mac



Echomac.sourceforge.net



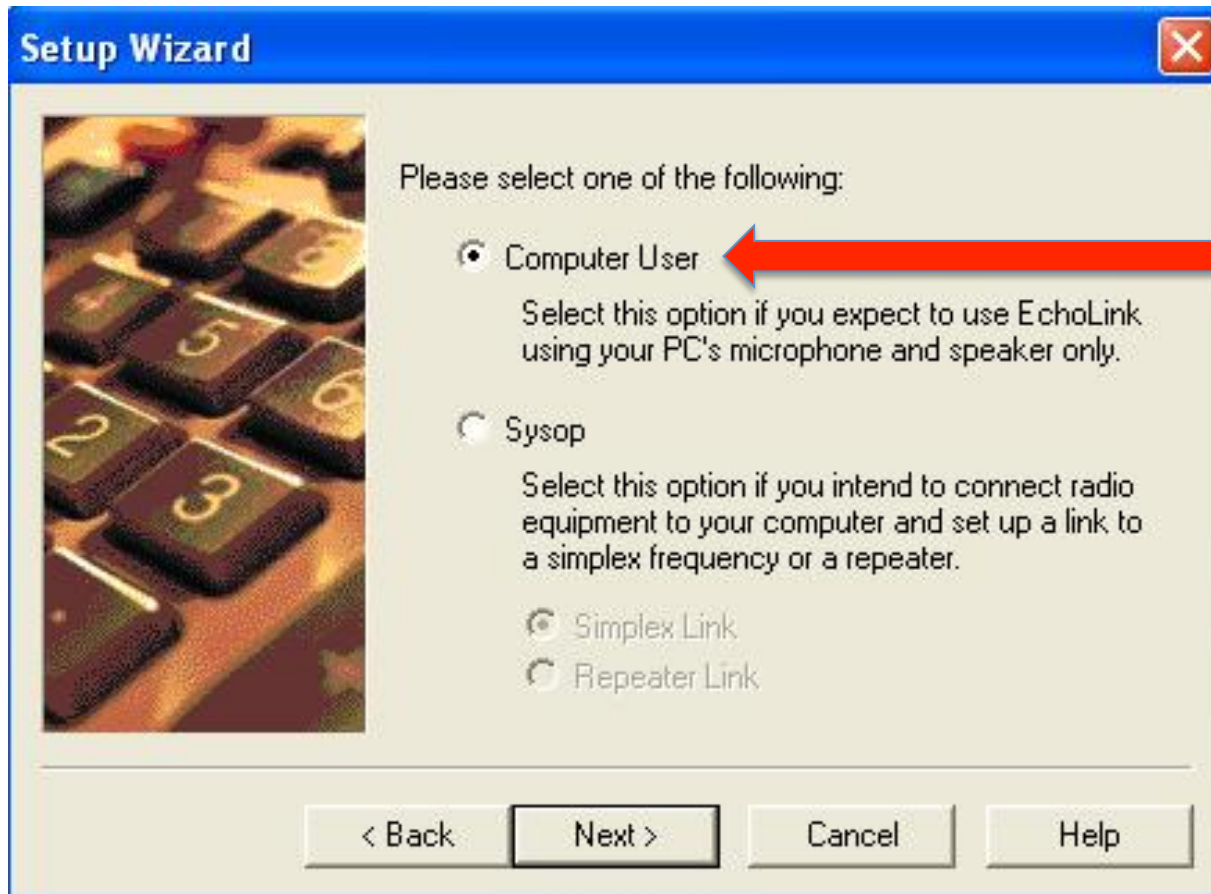
iPhone



Android



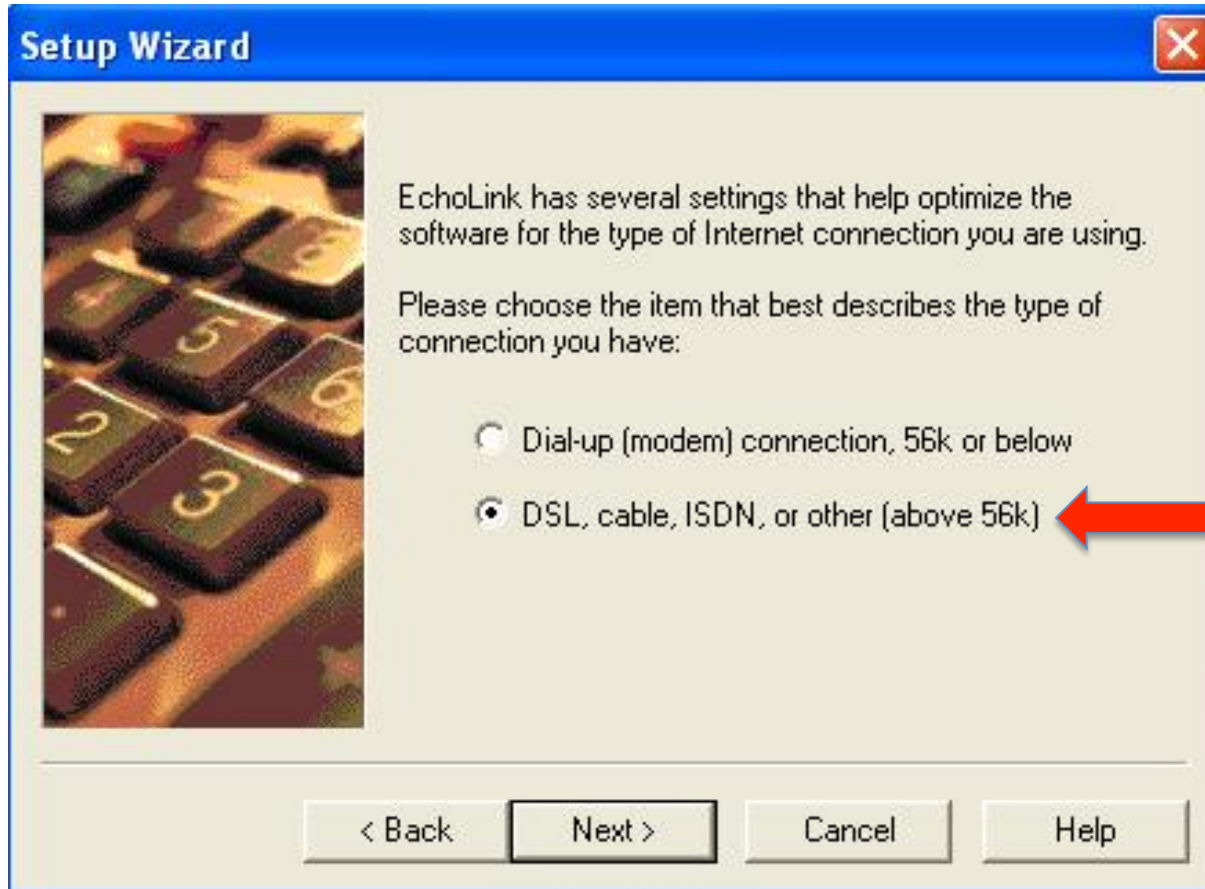
Installing EchoLink on a PC



Select



Installing EchoLink on a PC



Select



Installing EchoLink on a PC

Setup Wizard

Please enter the following information:

Callsign:

Password: (If you don't already have one, choose one.)

First Name:

Location:

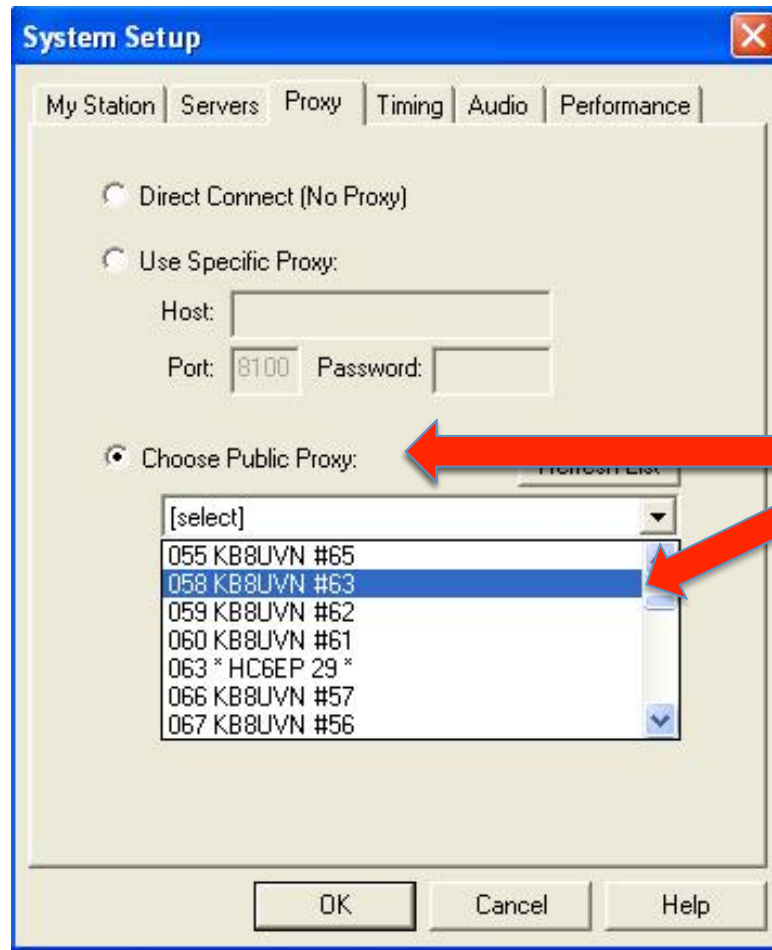
Email Addr:

< Back Next > Cancel Help

Complete
All



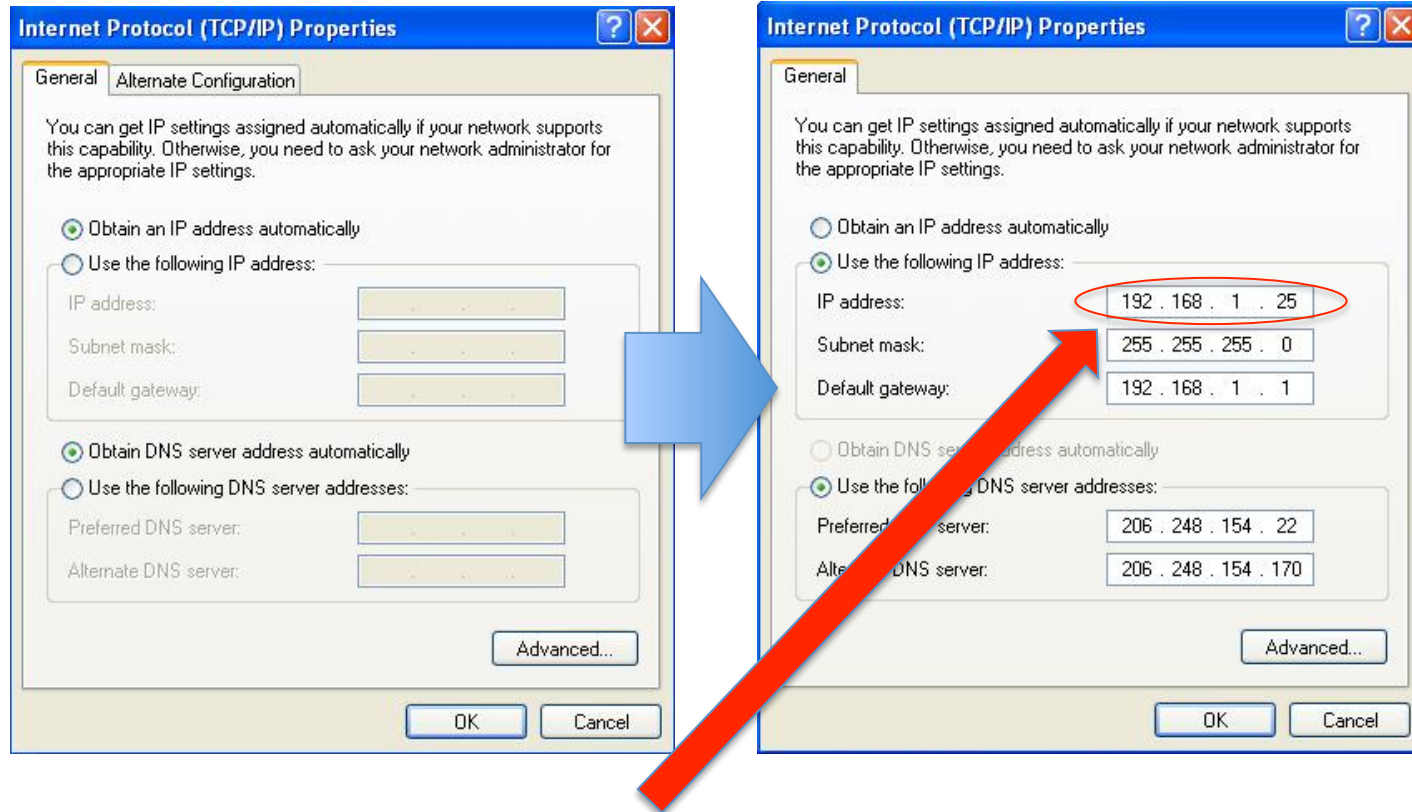
Installing EchoLink on a PC



Select



Installing EchoLink on a PC



Static IP Address of your EchoLink PC

Firewall Configuration for IRLP and EchoLink

The screenshot shows a web-based firewall configuration interface. The top navigation bar includes tabs for Setup, Wireless, Services, Security, Access Restrictions, NAT / QoS, and Administration. The 'NAT / QoS' tab is selected, and the 'Port Range Forwarding' sub-tab is active. Below the navigation, the 'Port Range Forward' section is displayed. A table titled 'Forwards' lists four rules:

Application	Start	End	Protocol	IP Address	Enable
IRLP1	2074	2093	UDP	192.168.1.25	<input checked="" type="checkbox"/>
IRLP2	15425	15427	TCP	192.168.1.25	<input checked="" type="checkbox"/>
EchoLink1	5198	5199	UDP	192.168.1.25	<input checked="" type="checkbox"/>
EchoLink2	5200	5200	TCP	192.168.1.25	<input checked="" type="checkbox"/>

A red arrow points to the IP address field of the EchoLink2 rule, highlighting the static IP address 192.168.1.25.

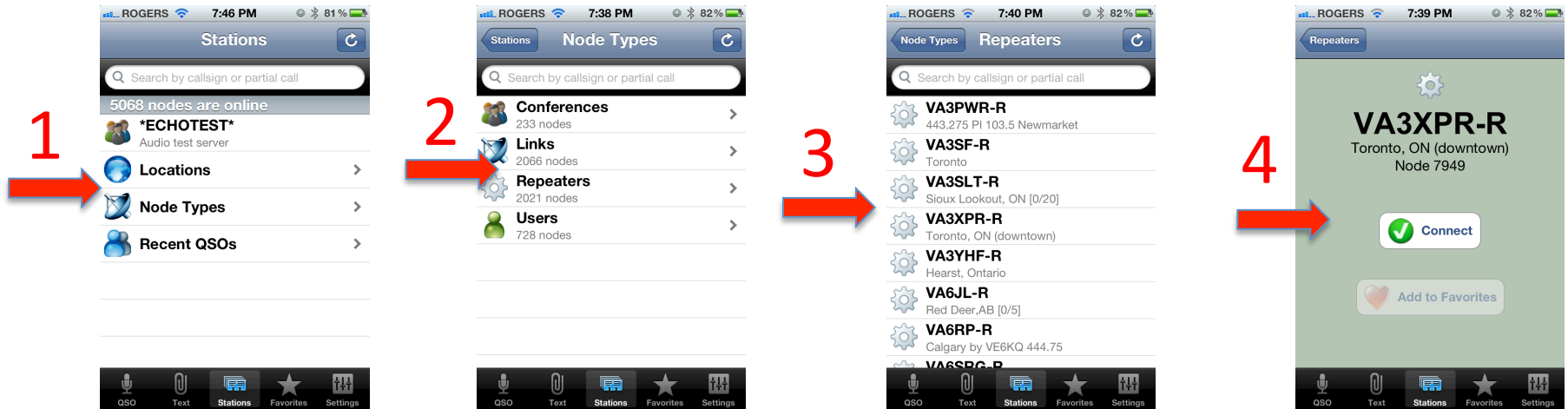
Static IP Address of your EchoLink PC

Provide Proof of License

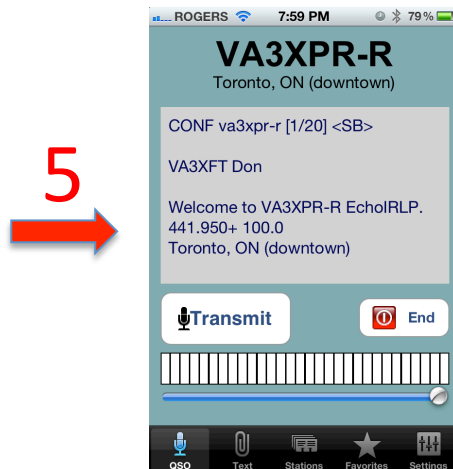
- Scan your Amateur Radio Operator Certificate, or equivalent into an supported image type
- Validate your information on the EchoLink website
- Submit your scanned Operator Certificate
- Validation should occur within a couple of days



Making EchoLink Calls using a Smartphone



QSO time!!!



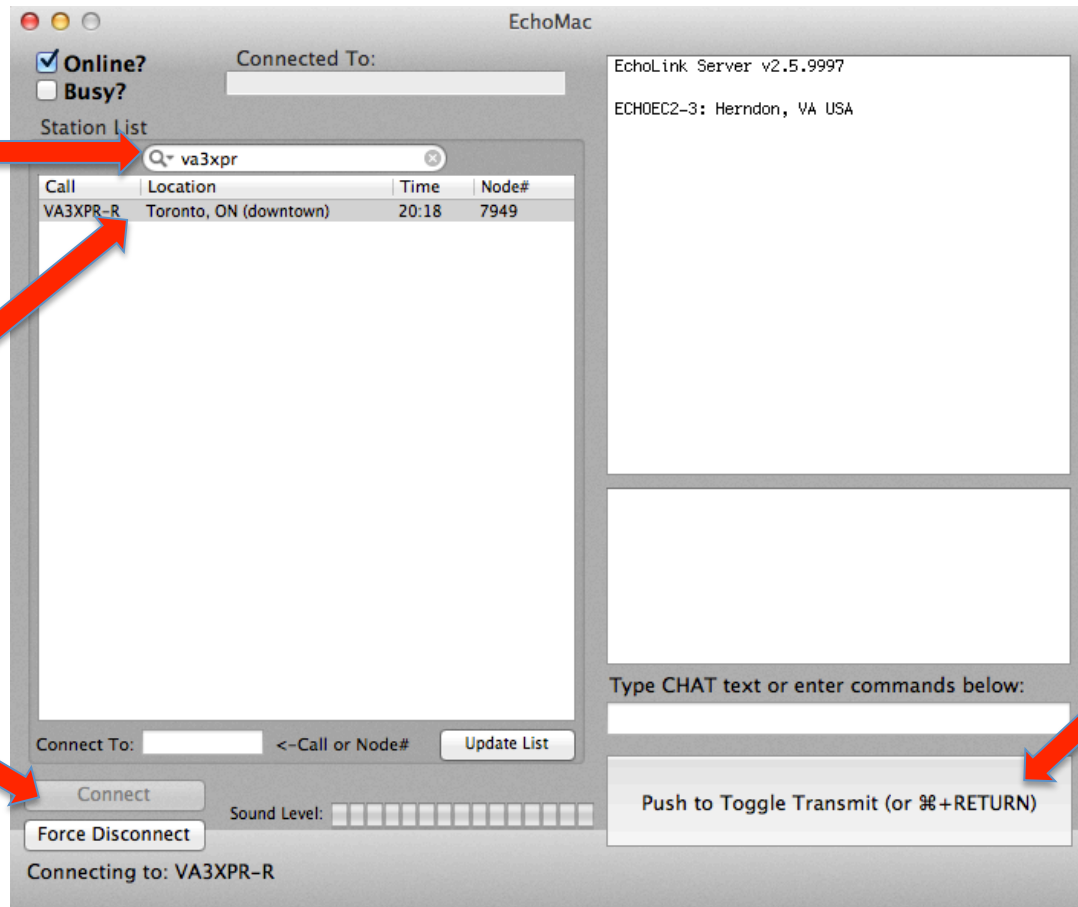
Making EchoLink Calls using a Mac

1. Search

2. Select

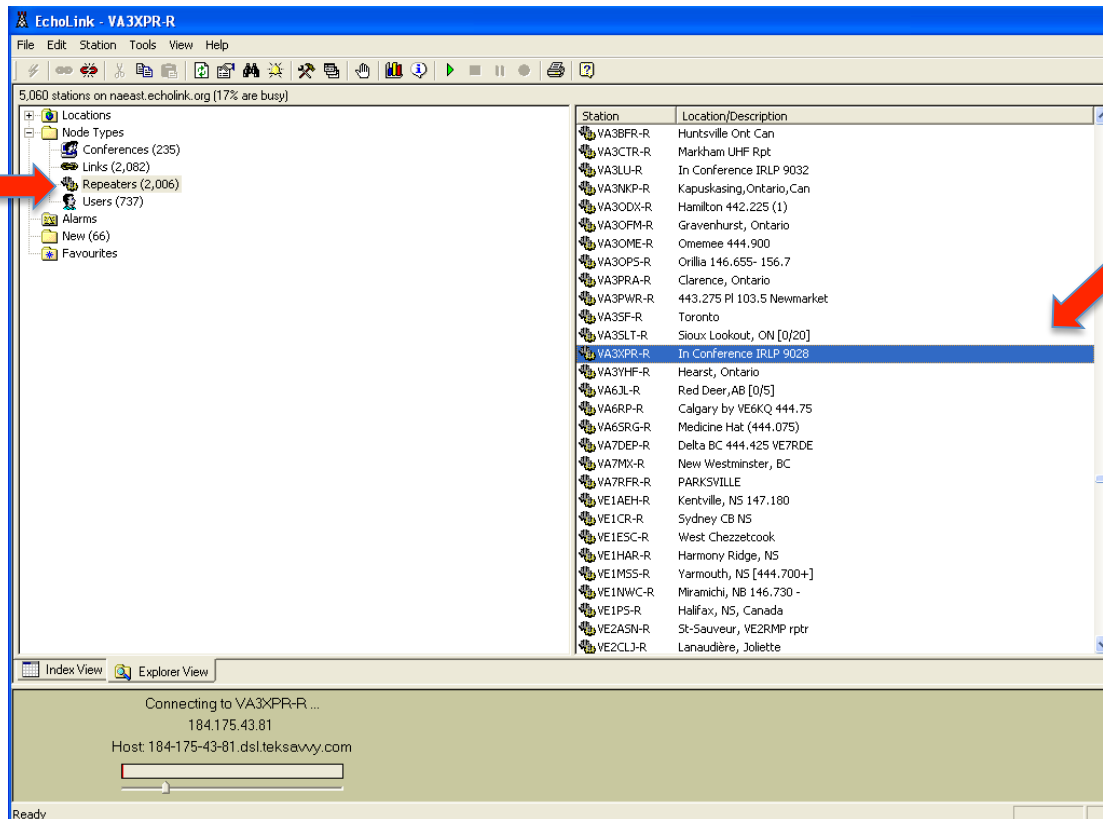
3. Connect

4. Talk



Making EchoLink Calls using a PC

1. Select



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
- **Check VA3XPR Net Calendar**



And Finally...

If you enjoyed this presentation, click the “Like” button on the the VA3XPR website:

<http://VA3XPR.NET>

The screenshot shows the VA3XPR.Net website. The main content area features a large article titled "IRLP & EchoLink Made Easy" with a sub-headline "Over The Air Learning VA3XPR The New Voice of Downtown Toronto". To the right, a Facebook social plugin is displayed, showing the "VA3XPR Amateur Radio Repeater" page with a "Like" button circled in red. A red arrow points from the text on the right towards this button. The website header includes navigation links like "About", "Specifications", "Coverage Area", "Services", "Net Calendar", "Photos", "Learning", and "Contact", along with social media icons for Twitter, Facebook, and RSS.

Questions?

Don Trynor, VA3XFT

VA3XPR Repeater Sponsor

Email: VA3XPR@gmail.com

Web: <http://VA3XPR.net>

