

Setting up an EchoLink Repeater.

First, go to <http://www.echolink.org> . You must validate as a licensed Amateur Radio Operator to download the EchoLink software. This same software is used for both personal single user use or for use as a Sysop Mode repeater. If you wish to set up an EchoLink repeater, be sure to register both your personal call sign and the repeater call sign. For instance WA5PB and WA5PB-R. Club and Vanity call signs may be registered. The EchoLink site provides facilities to upload the needed documentation, which is a copy of your Amateur Radio license.

Once you have successfully validated as a user with EchoLink, download the EchoLink software and also the documentation. <http://www.echolink.org/downloads/EchoLinkUsersGuide.pdf> Also, available to read online, <http://www.echolink.org/Help/default.htm> Support and FAQ information is also available online <http://www.echolink.org/support.htm>

READ THE DOCUMENTATION, SUPPORT AND FAQ INFORMATION CAREFULLY BEFORE SETTING UP YOUR ECHOLINK REPEATER. ALL INFORMATION NECESSARY TO ACCOMPLISH THE TASK IS ONLINE. BECOME THOROUGHLY COMFORTABLE WITH SINGLE USER SETUP AND USE OF THE ECHOLINK SOFTWARE PRIOR TO ATTEMPTING TO SET UP AN ECHOLINK REPEATER STATION.

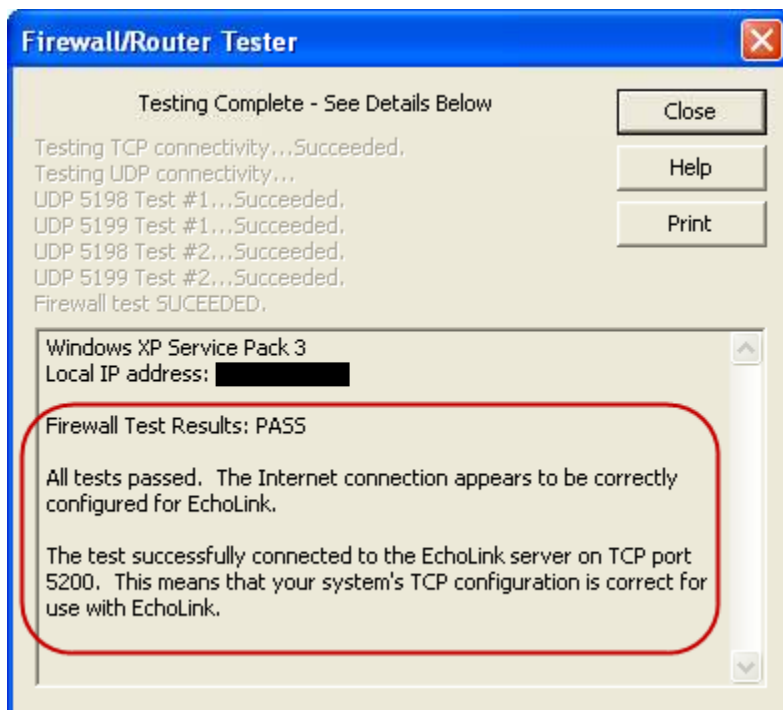
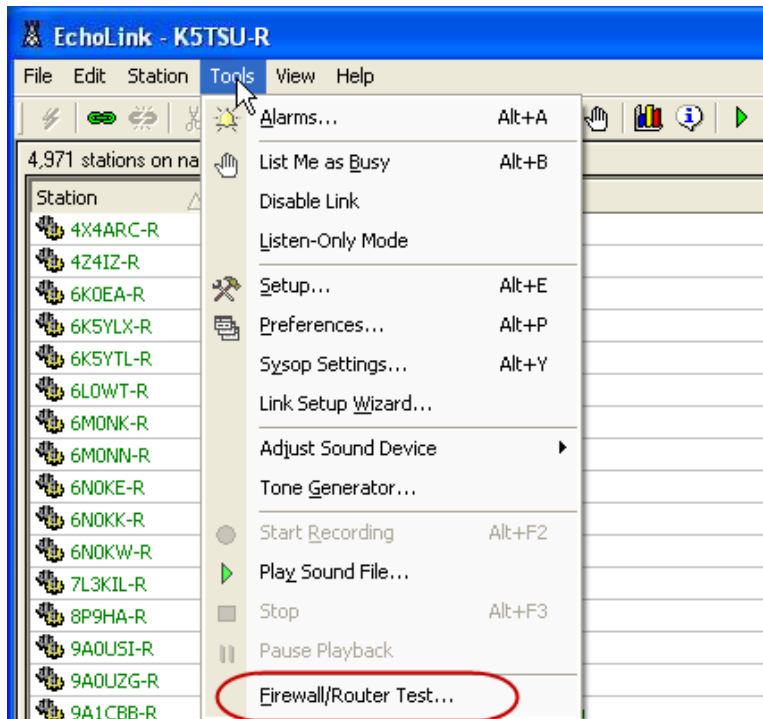
What follows is documentation of the settings of the K5TSU EchoLink repeater. It may be used as a basic guide to the necessary settings to properly configure the EchoLink software for Sysop Mode use.

Specifics concerning radio to computer interface equipment are not provided as this can vary greatly.

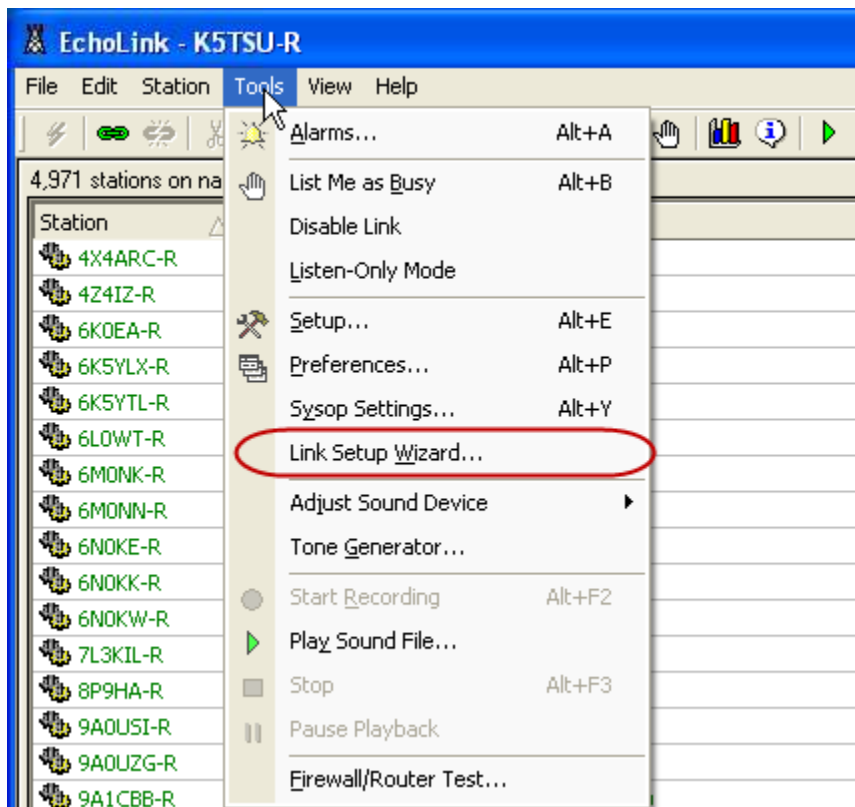
We will concentrate on items on the Tools menu. This is where you will perform all the necessary configuration. Not every possible setting is covered or explained, these are settings being used by a currently functioning EchoLink repeater, given as examples to aid in setting up new EchoLink Repeater systems.

First, please perform the Firewall/Router Test. You would have likely done this while using the EchoLink software for personal use. However, it is possible to have less than an ideal result in the Firewall/Router Test and still operate in single user mode. This will not be acceptable for Sysop Mode. You will need to have the results like the ones shown here in order to proceed successfully.

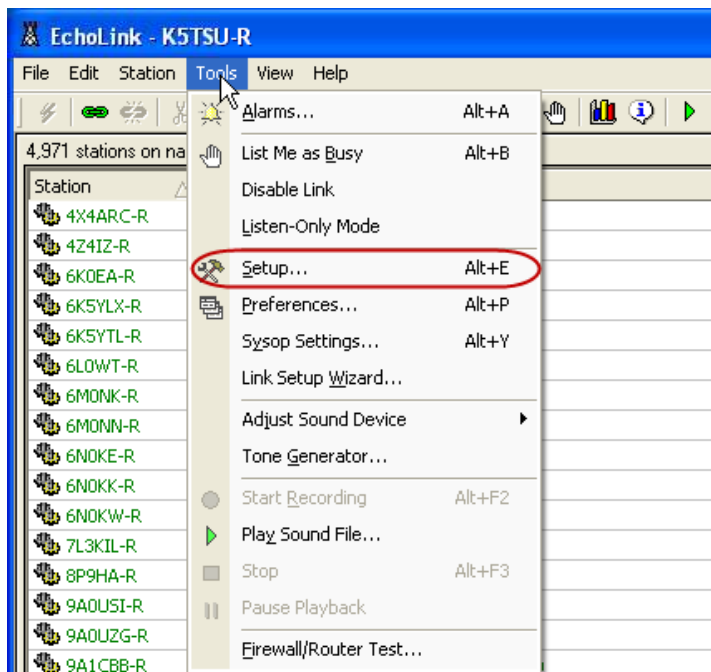
NOTE: If you use a laptop operating on AC power and with a good battery, as your EchoLink computer, you'll have a built-in Uninterruptible Power-Supply (UPS) in the event of a grid failure. Just another step toward keeping our emcomm capabilities on-the-air when all else fails.



You will want to run the Link Setup Wizard. It steps you through the basic settings needed to configure Sysop Mode. However, please read through the next several pages as they will contain examples of settings for most of what you will see in the Link Setup Wizard.



First, lets look at settings under Tools>Setup.



System Setup [X]

My Station | Servers | Proxy | Timing | Audio | Performance

Mode
 Single-User Sysop

Callsign: K5TSU-R

Password: [REDACTED] ? Store password locally

Name: Donald

Location: Tarleton Area ARC

Email Addr: k5iy@rebelwolf.com

System Setup [X]

My Station | Servers | Proxy | Timing | Audio | Performance

Pref 1: nasouth.echolink.org

Pref 2: naeast.echolink.org

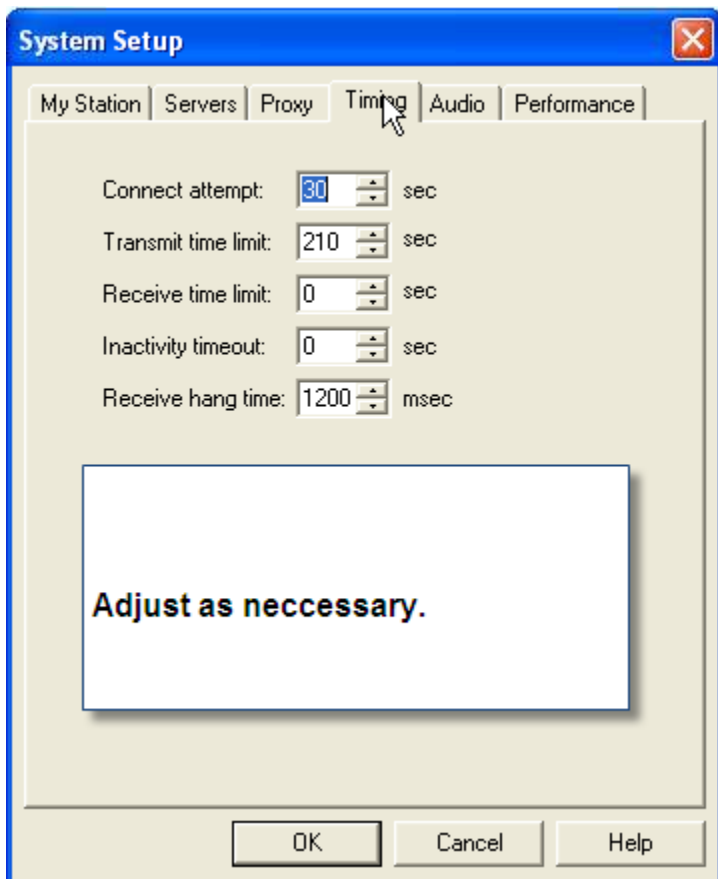
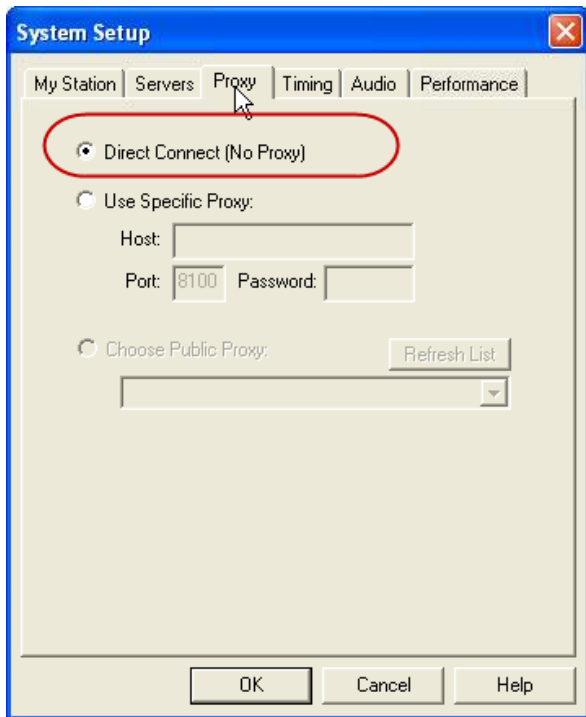
Pref 3: servers.echolink.org

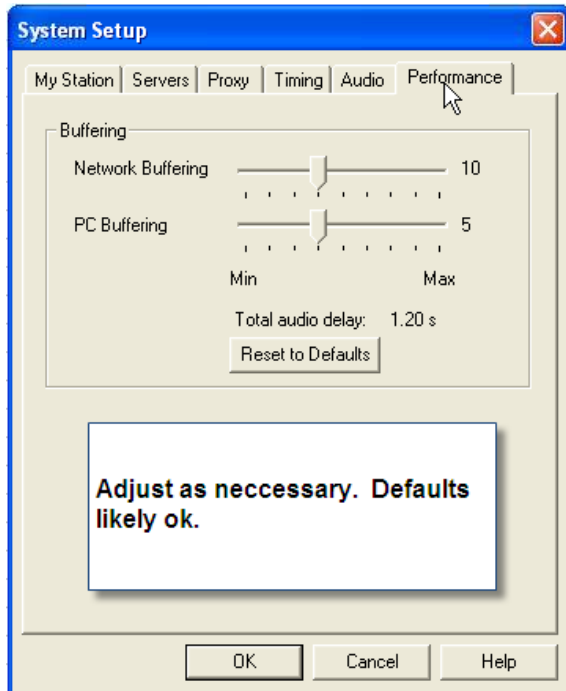
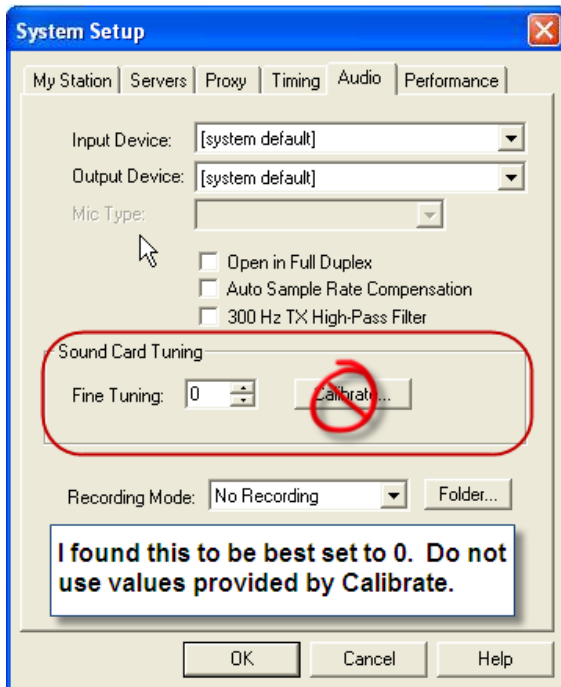
Pref 4: backup.echolink.org

Retry Timeout (sec): 10

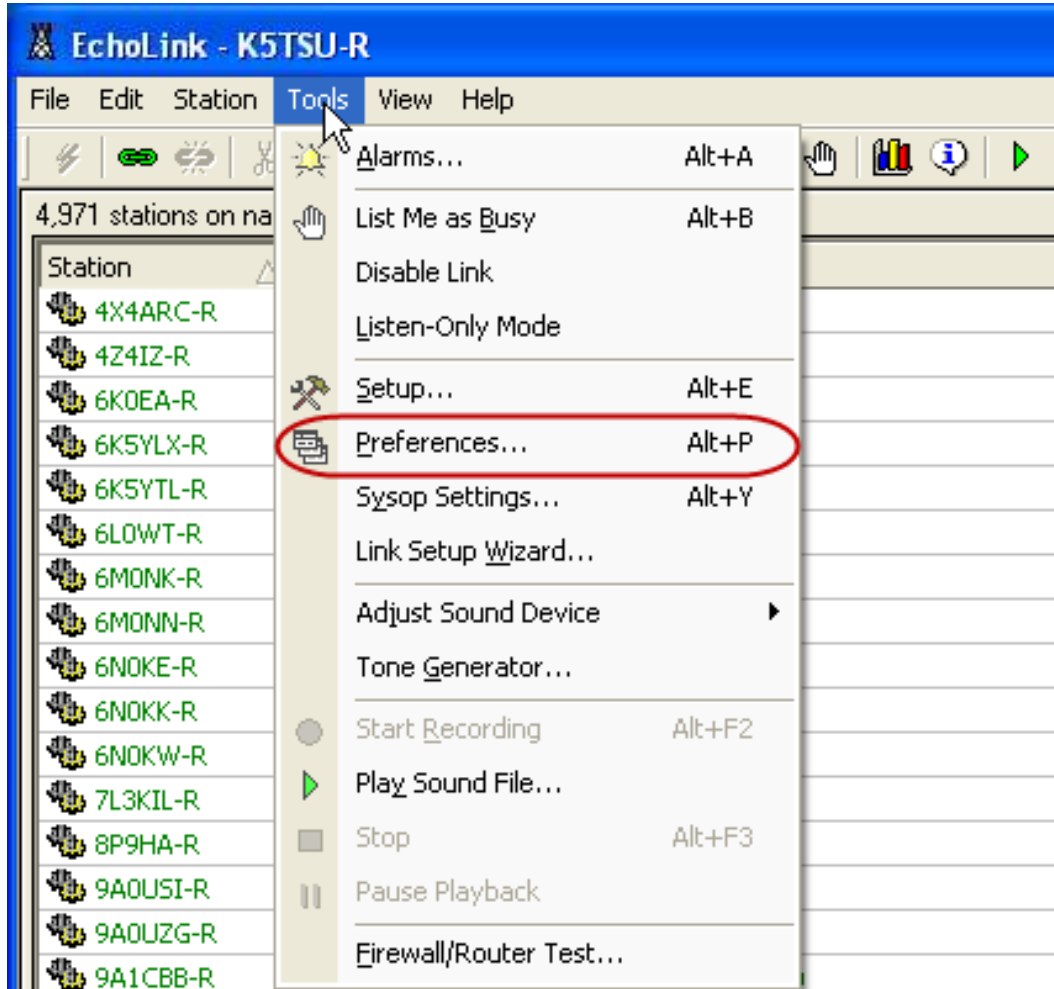
Automatically Dial Connection:
[REDACTED]

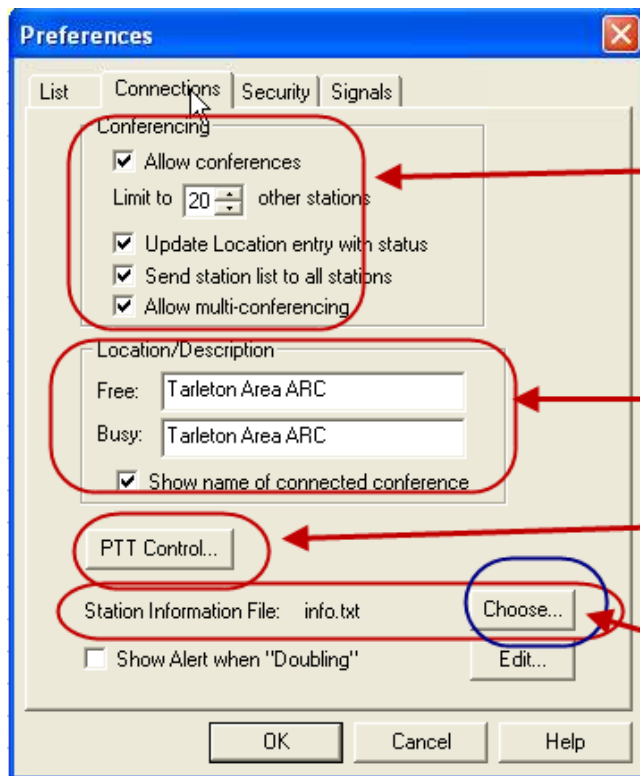
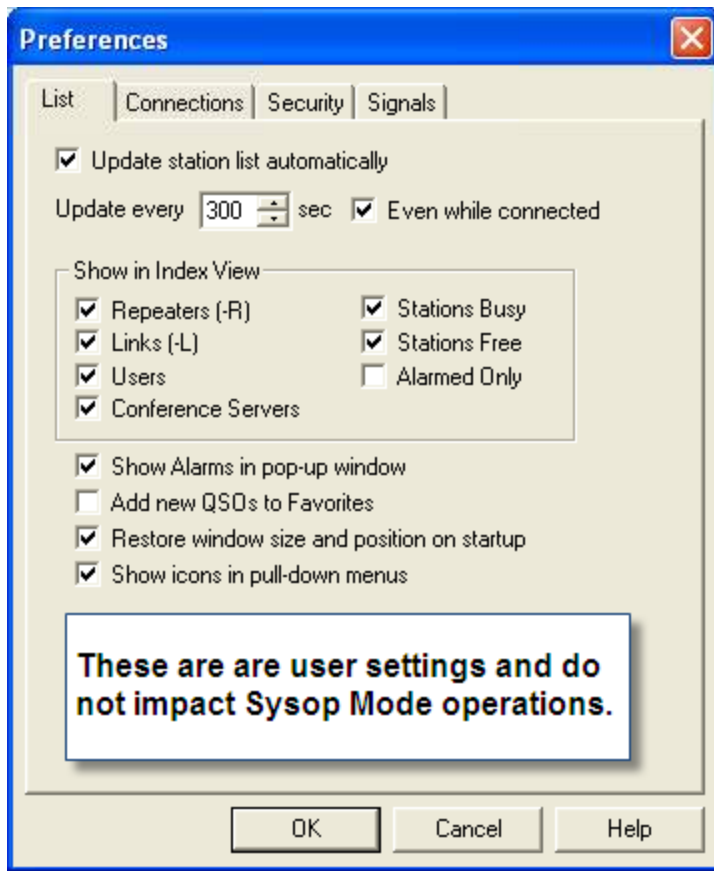
Disconnect on exit





Next, Tools>Preferences – MAINLY USER MODE SETTINGS, BUT SOME YOU NEED TO CHECK



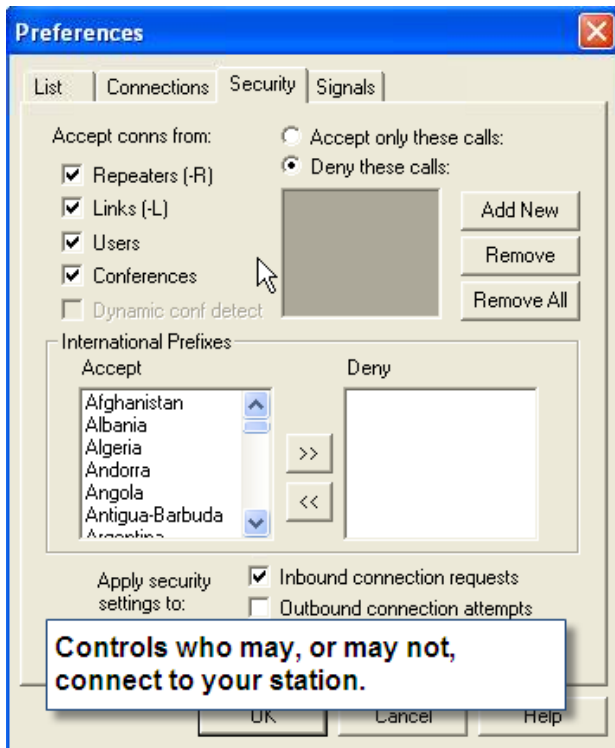
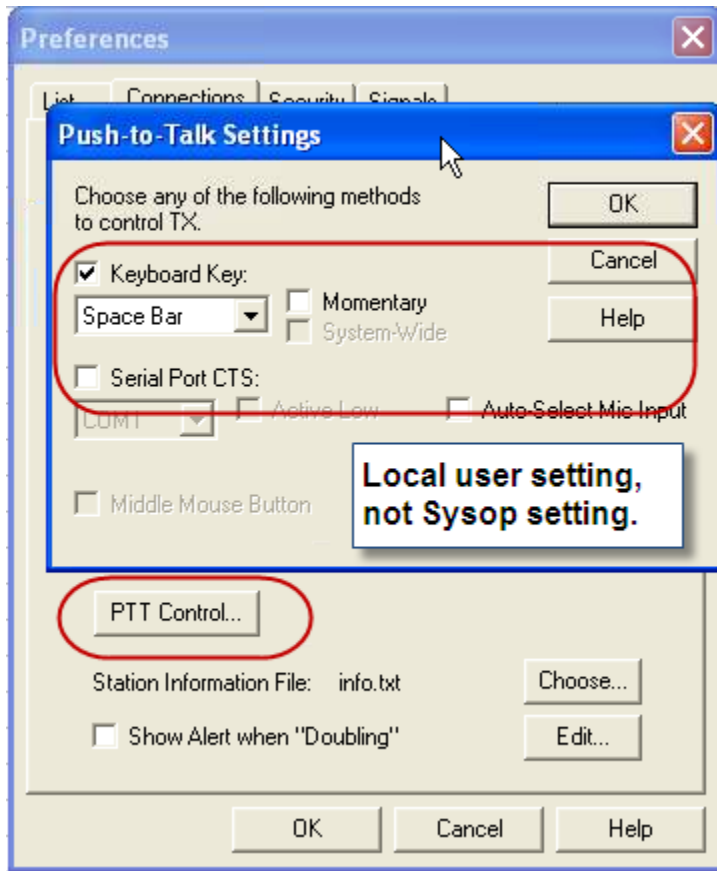


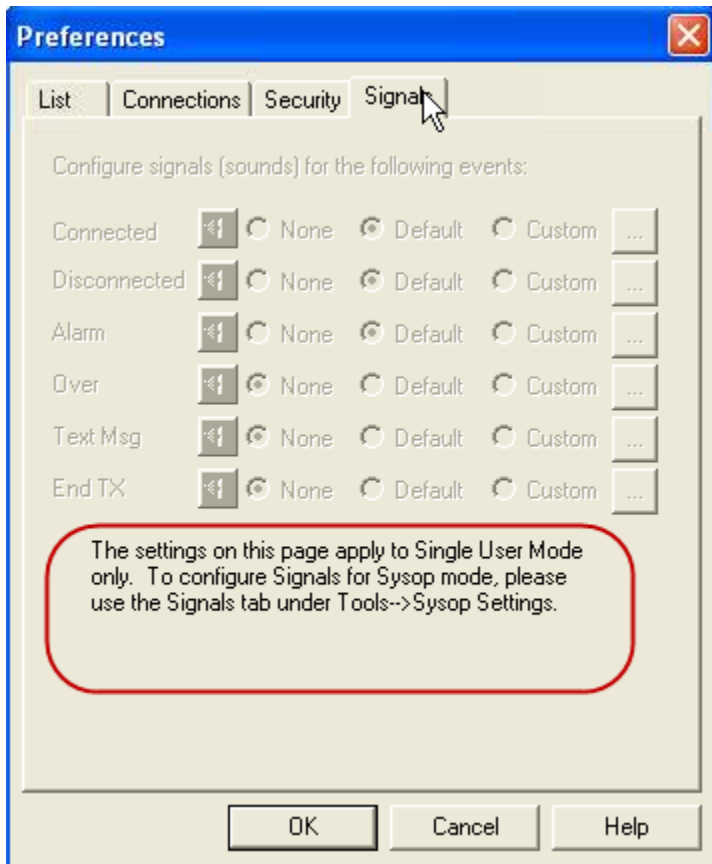
Set this if you wish to allow conferences, etc.

How your system will appear in the EchoLink listings.

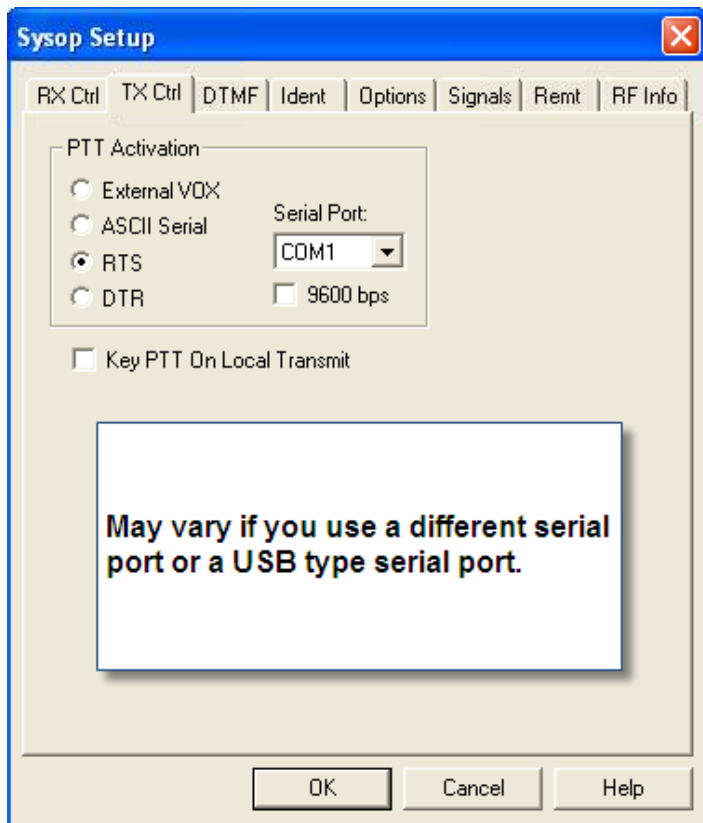
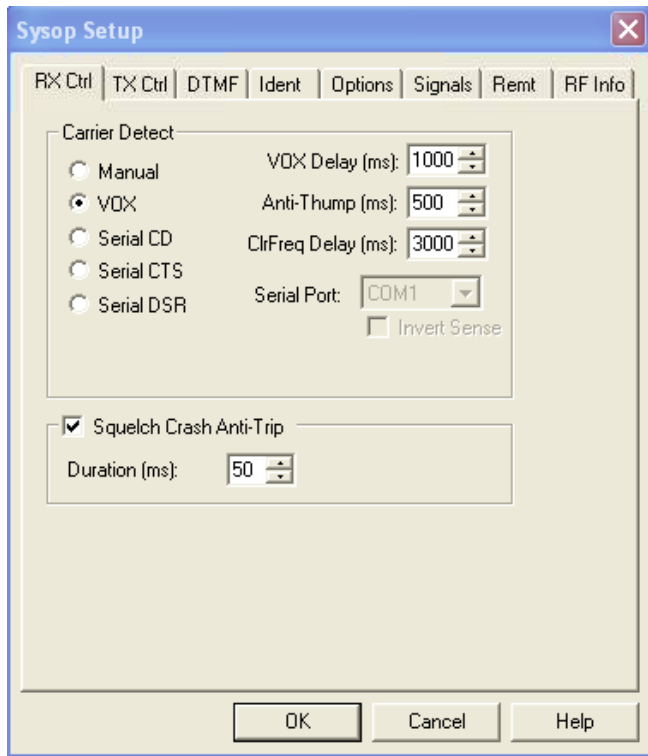
Local user setting, not Sysop setting.

This is the file you can put more info about your station to be displayed when users connect via the EchoLink software.





Next, Tools>Sysop Settings (THESE ARE THE MAIN SETTINGS FOR THIS MODE OF OPERATION)



Sysop Setup

RX Ctrl | TX Ctrl | **DTMF** | Ident | Options | Signals | Remt | RF Info

DTMF Decoder
 External
 Internal
 Disabled

Min Interdigit Time (ms): 0

Log All Commands
 Auto Mute
 Disable During PTT
 Enable Remote Pad

Advanced...

Reset to Defaults

Dead-Key Prefix: #

Station Shortcuts...

OK Cancel Help

Important! "Connect" needs to be blank!!!

Function	Sequence
Connect	
ConnectByCall	
Disconnect	
DisconnectAll	
LinkDown	
LinkUp	
ListenOnlyOff	

Long list of functions, some you may not want or need. Keep them down to single or two character sequences that make sense.

Advanced DTMF Settings

Fine Tuning (±%): 0

Freq Tolerance (%): 6

S/N Ratio (db): 12

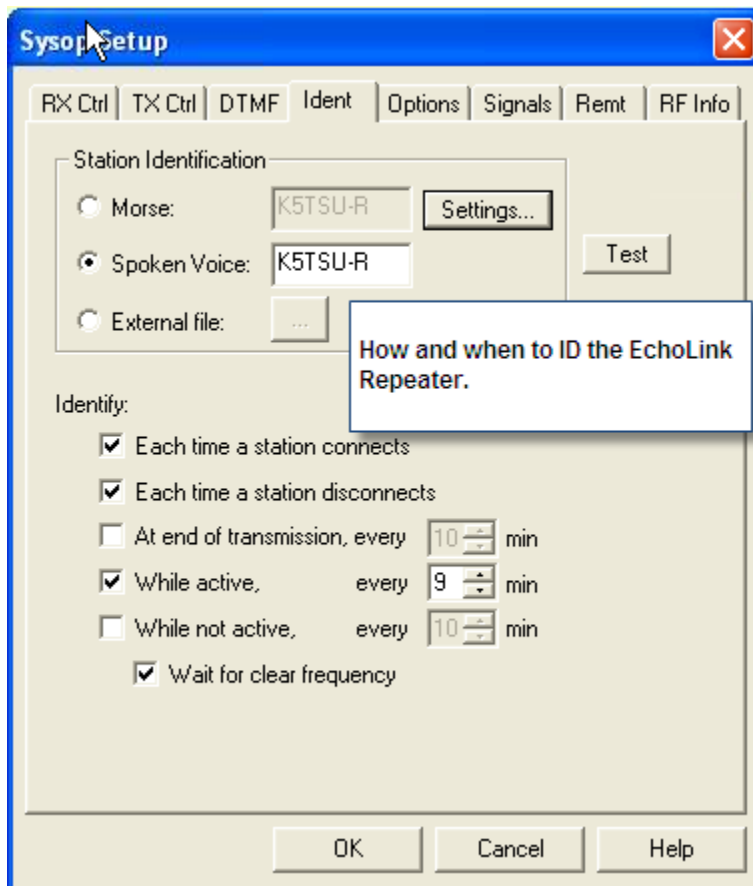
Twist (db): 4

Reset to Defaults

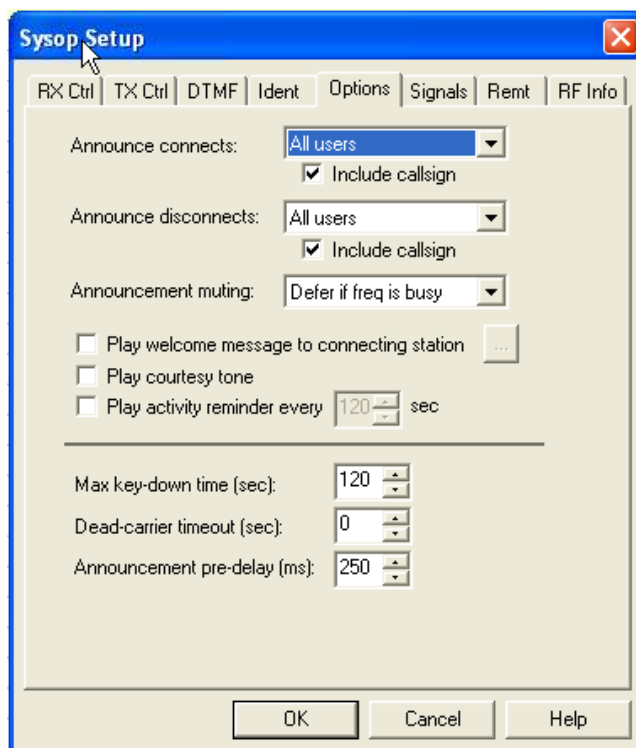
OK Cancel

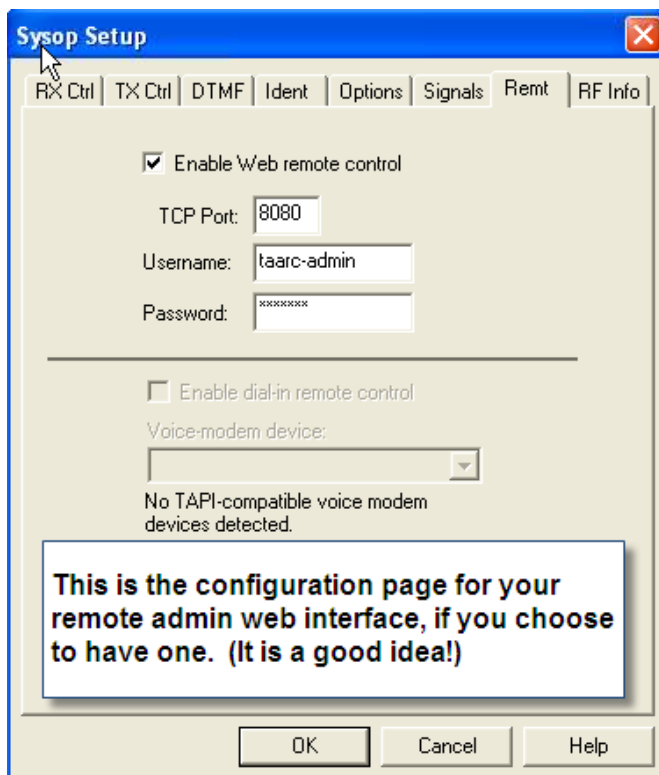
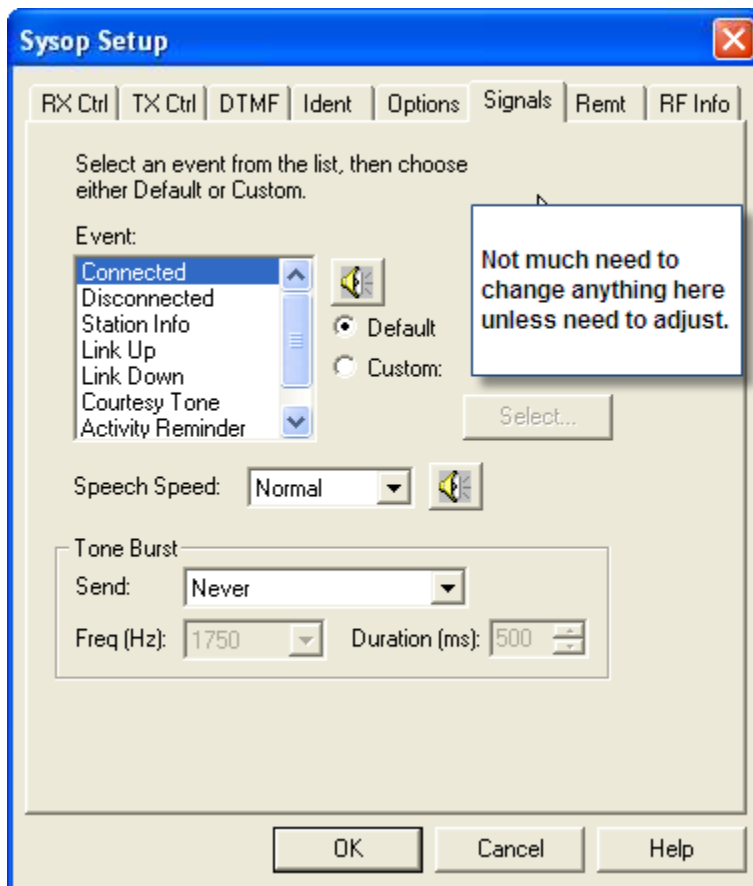
These will vary based on your various audio settings.

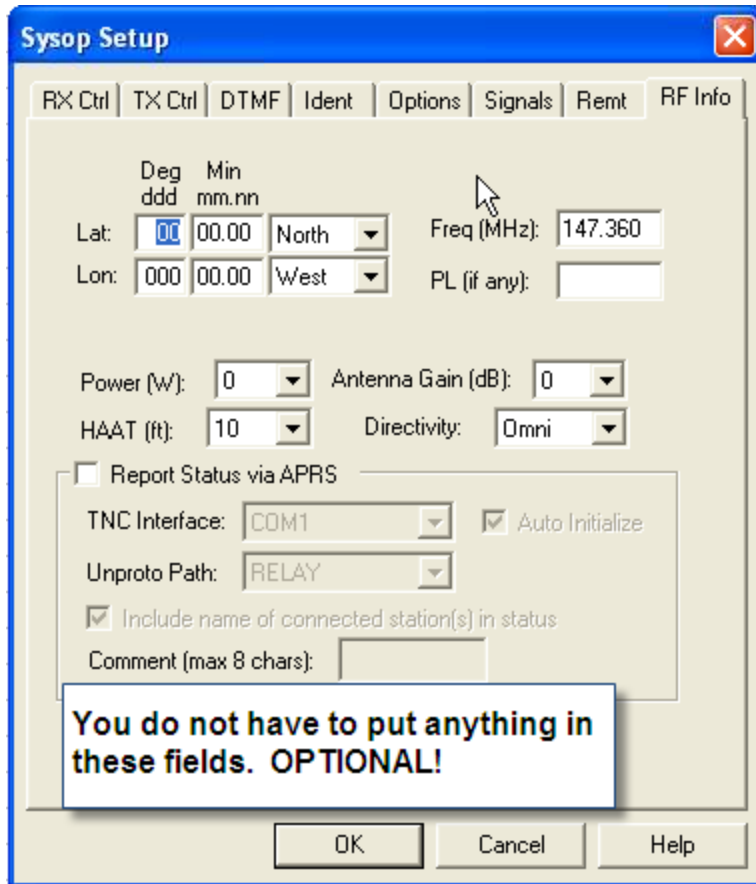
519671
351112
530635
280791
195822
323177
519697
296997
149493



How and when to ID the EchoLink Repeater.







Additionally...

