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How to Use Echolink (QTEL) on Ubuntu 14.04

Posted on July 17, 2014 by Wayne Taylor

Thanks to [Joe](#) for actually searching the solution(s) and emailing me. I figured we should publish this for others. I figured worst case scenario, I would probably need to log these solutions for later when I forget, ha. First of all, you can apparently use the native Echolink windows app using [Wine](#) in Ubuntu. But that's kind of like praying while sitting on the toilet - it might work but it just feels wrong. But I digress. I will use this outdated tutorial designed for Ubuntu. This is kind of like roasting your own coffee - it might be hard, and there might be a faster way to do it but nothing compares to that first sip if you sweat it out. But I digress again... Let's put this Qtel thing onto our Fresh and Saucy Ubuntu 14.04 machines so we can ham with our homeboys in Nunavut. Edit 140728 - It seems that Joe's ports 5200 below did *not* help me but, everything was solved when I opened port range 5198-5199 UDP only in my router. Instantly my Qtel sound was working on Ubuntu 14.04. I hope this helps you all! I'll so another post exclusively on this issue. Edit 140718 So, if you want the long and painful story of what I had to go through before I finally got Qtel (echolink) working on my Ubuntu 14.04 machine, please take all the time in the world and read through the story. It's kind of funny if you like watching people suffer. Otherwise, I'm just leaving it below to hopefully catch a bunch of SEO and save other people from the certain loss of hair and sanity as they try to figure it out. The solution turned out to be very fast and easy, thanks to Joe (VA7OBI). All of that will begin under the header "The Long Battle" below.

How to Get Qtel (Echolink) Running on your Ubuntu 14.04 machine

First, we are not sure if you need this PPA added to your machine. Both of us added it before doing this so let us know this tutorial works without adding it as we are both curious (sudo apt-add-repository ppa:ubuntu-hams-updates/ppa) . If this tutorial doesn't work for you, come back and add that repository.

1. Add the "Felix Repository" In your terminal (control + alt + t) enter this verbatim and press enter: sudo apt-add-repository ppa:felix.lechner/hamradio 2. Open software center. Go to Software Sources

 qtel-tut-soft-sources-01-1024x819.png

Should see something like this list:

 qtel-tut-source-list-01-1024x819.png

Go through and find the 'felix repository' which will look something like this but the end will be different (maybe):

 qtel-tut-felix-source-01-1024x819.png

3. Click 'edit' and a box will pop up like this. Change 'trusty' to 'raring' in that field. If you are still on 'Raring Ringtail' then you don't even need this tutorial because it should work as is now. For those of us on 14.04 (Trusty Tahr) Just change it back to 'raring' like this image:

 qtel-tut-felix-source-raring-01-1024x819.png

Click 'ok' and then 'save' or whatever the option is. Then, do the same thing for the 'source code' line as well. Do 'edit' and change the name to raring so you end up with it looking like this

 qtel-tut-felix-final-01-1024x819.png

4. Now, go back to your terminal and run these two commands one after the other:

```
sudo apt-get update
```

(this one puts felix in your list of software sources so you can actually download and install the Qtel app)

```
sudo apt-get install qtel
```

(this one installs the qtel app) That's it! It should work. Now you can just start typing 'qtel' in your HUD (or however you like to find your installed apps) and click it. It should open and prompt for your ham radio license and password. Note: In my case, it seems like it's working just fine. In the case of Joe, he had to open ports 5200 (UDP and TDP) in his router. If you don't know how to open ports in your router, [this website](#) has been amazing for years. We hope this has helped you and that you will look me up on Echolink and send me a note. I think it supports voice and chat.

The Long Battle

Below are the details of the things I tried before finding the quick and easy solution. I never got to the final solution because the above solution happened right before, ha. Edit 140717 7:30am-8:30 I contacted VA7OBI on the ham (it's cooler to fix ham issues on the ham) and we walked through this. Joe in a moment of revelation decided to click the qtel .deb file and badda bing/boom it started installing with the software centre. It gave a warning of bad quality but I also got this method to start to work and it shows it as installed now. Edit 140717 5am-7am - Current situation: FAIL! Do not do anything in this post yet if you aren't pretty advanced because I mucked up my computer doing some of this, but please feel free to help me! What I'm going to do is follow these steps provided by [Charles Socci K1DNR](#) verbatim and if they work, you'll have screenshots and stories along the way. If there are hiccups, hopefully I'll find them and fix as we we go. Let's begin:

1 – Download packages from <http://www.chrisronk.net/ham/qtel-debian.tar.gz> or <http://lz5pn.homeip.net/lz5pn/echoli...-debian.tar.gz>.

Comment: second link didn't work but it went to a kind of cool blog. Use the first link. What I'm going to do is save the file as download and then move it to my documents directory in one I just named QTEL.

2 – Extract

Comment: I did a right click on the tar file and 'extract here'

3 – Install getlibs – (<http://ubuntuforums.org/showthread.php?t=474790>)

Comment: What the heck is a 'getlib'? Sounds like a domain for promoting the liberal party...but I digress.. And I will install...ok, so this link doesn't work. I knew this would happen so that's why I'm making this post. Now I went back and read [this post](#) referred by Charles which turned out to be quite interesting. Maybe don't do anything yet until I find out it's necessary but note that it expands on the original Charles Socci post and may solve issues I don't here. Dang... that took a while. Finding getlibs was hard but I found it on [this page](#) somewhere in the middle. Save yourself the time and just put these in your terminal one at a time and hope it works (seems to have worked for me without a hitch)(thanks Jeff Hendricks whoever you are...): `wget -c http://jeffhendricks.net/getlibs-all.deb sudo dpkg -i getlibs-all.deb`

4 – Type: `sudo dpkg -i --force-all qtel_0.11.0-2_i386.deb` (or whatever the name of your qtel .deb file is – we won't be using the other deb files you extracted)

Comments: I'm going to first check the file name of that thing I extracted to see if it's the same as this file name here...it indeed appears to be the same. I'll try just plopping this in the terminal to see what happens...error. No directory. I figured. So I obviously have to direct my terminal to this first. I will type: `cd /home cd /usernameofcomputer cd Documents cd QTEL cd qtel-debian` now I will try it again: `sudo dpkg -i --force-all qtel_0.11.0-2_i386.deb` It did something...maybe...it worked? Next!

5 – Type: `getlibs /usr/bin/qtel`

Comments: Not looking good. Here is what I got:

No match for libecholib.so.0.13 No match for libasynqqt.so.0.16 No match for libasyncaudio.so.0.16 libqt-mt.so.3: libqt3-mt No match for libmng.so.1 libjpeg.so.62: libjpeg62

```
libsigc-1.2.so.5: libsigc++1.2-5c2 No match for libasynccore.so.0.16 Reading package lists... Done Building dependency tree Reading state information... Done Package libqt3-mt is not available, but is referred to by another package. This may mean that the package is missing, has been obsoleted, or is only available from another source E: Package 'libqt3-mt' has no installation candidate
```

But what I noticed is that at least some of these 'no match' folks are in the qtcl directory debian file I just downloaded above.... Weird? I'll just try to open the software and see what happens: Fail. It did not open by clicking app icon, nor did it open by entering 'qtcl' in terminal. By doing the latter, though, it showed it to be missing the echolib file... --> libecholib.so.0.13: cannot open shared object file: No such file or directory Back to [this dude's blog](#) to try that install order...

```
Install in this order: 1 getlibs-all.deb 2 echolib_0.13.0-2_i386.deb 3 libasync_0.16.0-2_i386.deb 4 libsigc++1.2-5_1.2.7-2_i386.deb 5 qtcl_0.11.0-2_i386.deb
```

I'm trying this in my terminal in the qtcl directory: 1. (already done above) 2. sudo dpkg -i --force-all echolib_0.13.0-2_i386.deb (seemed to do something but I am out of order from this dude's blog since qtcl is already installed...) 3. sudo dpkg -i --force-all libasync_0.16.0-2_i386.deb (seemed to work, though forced) 4. sudo dpkg -i --force-all libsigc++1.2-5_1.2.7-2_i386.deb 5. (already done above) Now I'll try step 5 again:

```
5 - Type: getlibs /usr/bin/qtcl
```

Not looking good again:

```
libqt-mt.so.3: libqt3-mt No match for libmng.so.1 libjpeg.so.62: libjpeg62 libqt-mt.so.3: libqt3-mt No match for libmng.so.1 libjpeg.so.62: libjpeg62 Reading package lists... Done Building dependency tree Reading state information... Done Package libqt3-mt is not available, but is referred to by another package. This may mean that the package is missing, has been obsoleted, or is only available from another source E: Package 'libqt3-mt' has no installation candidate E: Package 'libqt3-mt' has no installation candidate
```

I'll just try entering qtcl in terminal again and see what happens this time... FAIL:

```
libqt-mt.so.3: cannot open shared object file: No such file or directory
```

I'm going to try now to remove qtcl since it was out of order in my install. sudo apt-get remove qtcl Now I'm going to install it again by going to that package directory with debian files and typing this again:

```
sudo dpkg -i --force-all qtcl_0.11.0-2_i386.deb It 'seems' better:
```

```
dpkg: error processing archive --force-all (--install): cannot access archive: No such file or directory
Selecting previously unselected package qtcl. (Reading database ... 272460 files and directories currently installed.) Preparing to unpack qtcl_0.11.0-2_i386.deb ... Unpacking qtcl (0.11.0-2) ...
Setting up qtcl (0.11.0-2) ... Processing triggers for gnome-menus (3.10.1-0ubuntu2) ... Processing triggers for desktop-file-utils (0.22-1ubuntu1) ... Processing triggers for bamfdaemon (0.5.1+14.04.20140409-0ubuntu1) ... Rebuilding /usr/share/applications/bamf-2.index... Processing triggers for mime-support (3.54ubuntu1) ... Errors were encountered while processing: --force-all
```

Try again qtcl in my terminal: FAIL! same error: libqt-mt.so.3: cannot open shared object file: No such file or directory what's this libqt thing? I want to kill you slowly and painfully! Try clicking icon app through super key: FAIL! Nothing. I'm going to sudo-apt-get-remove-kill-and-destroy all of them now and do them one at a time again... 1. sudo apt-get remove getlibs 2. sudo apt-get remove echolib 3. sudo apt-get remove libasync 4. sudo apt-get remove libsigc++ 5. sudo apt-get remove qtcl Man. Doesn't seem to want to uninstall qtcl. I might have goofed by not listing the full package names above. Maybe I messed up my computer and should have followed verbatim these package names when doing the sudo apt-get removes.... I will try install again... 1. wget -c http://jeffhendricks.net/getlibs-all.deb sudo dpkg -i getlibs-all.deb 2. sudo dpkg -i --force-all echolib_0.13.0-2_i386.deb 3. sudo dpkg -i --force-all libasync_0.16.0-2_i386.deb 4. sudo dpkg -i --force-all libsigc++1.2-5_1.2.7-2_i386.deb 5. sudo dpkg -i --force-all

qtel_0.11.0-2_i386.deb ERROR! libqt-mt.so.3 how to get you! This [nasty thread](#) probably has some answers. I will do it for the team :(and by the way I screwed up my software centre at some point so it's messed. May need full new OS. Time for a break. I'm calling Joe!

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