

Preface

There are more and more complaints about connection issues with Echolink Gateways deployed on the HAMNET. This document will give short information what is happening and how **users** can get around it.

Issue

The HAMNET is using the IPv4 address space of the AMPRNet 44.0.0.0/8. To connect Echolink Gateways on the HAMNET to the Echolink Network, NAT or Masquerading-Technology is used to map the “internal” network 44 address to the “external” public IP address on the Internet. Many hosts on the HAMNET are “dual homed” with a network 44 address for the communication between other hosts on the AMPRNet and a public IP address for the communication to the Internet.

This paradigm worked quite fine as long as network 44 addresses are considered as not being routed on the Internet. Several years ago this paradigm changed, thus more and more network 44 addresses are used on the Internet nowadays by amateurs having the capability to announce their netblock directly on the Internet by BGP.

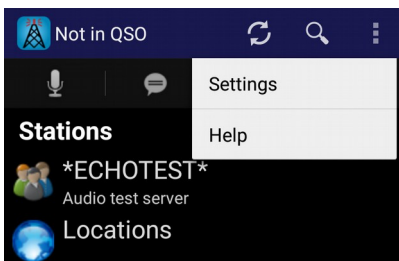
Recently a large “Echolink Proxy Farm” has been deployed directly on the Internet using network 44 addresses (>200). The communication between this “Echolink Proxy Farm” and most Echolink Gateways on the HAMNET will fail, since the Echolink Gateways are considering the old paradigm.

IP packets from the “Echolink Proxy Farm” are delivered to the “external” public IP address of the Internet Router of a HAMNET Echolink Gateway and then forwarded to the machine where the Echolink Gateway Software is running on. IP packets from the Echolink Gateway on the HAMNET are delivered back to the “Echolink Proxy Farm” using the “internal” IP address rather than the “external” IP address (the IP address the Echolink Gateway is registered on the Echolink Network). Thus these packets are dropped.

Workaround for Users

This chapter explains the actions to take using the Echolink Smartphone App as an example.

Change to the “Settings”:



Change the “Network Connection”:

EchoLink Preferences

Callsign
DG8NGN

Auto Location

Location
Oberasbach, DE JN59

Name
Jann Traschewski

Network Connection
Relay

The option “Relay” will connect your smartphone to the next available Echolink Proxy based on the geolocation information of your current public IP address. It might happen that you will be directed to the “Echolink Server Farm” on the Network 44. To avoid this we need to choose a custom proxy:

Choose Network Options

Auto

Direct

Relay

Public Proxy

Custom Proxy

Open up a browser and surf to <http://www.echolink.org/proxylist.jsp>:

EchoLink Proxy List

The following “public” EchoLink Proxy servers have reported their status within the last 10 minutes.

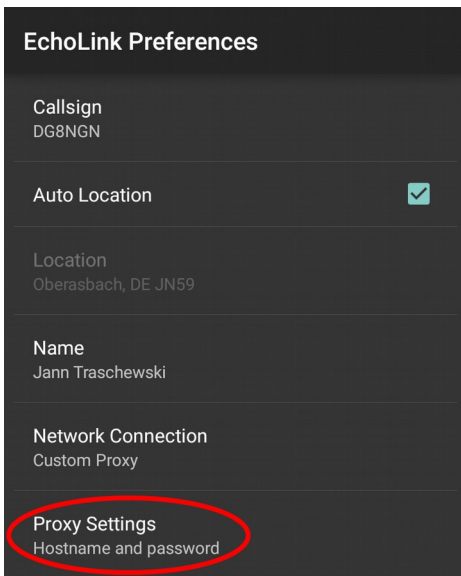
The owners of each of the following servers have indicated (in their proxy configuration file) that they welcome any registered EchoLink user to use their EchoLink Proxy. These are shared resources; please be considerate and use them sparingly.

The password to access any of the following proxies is: PUBLIC.
The port number (unless otherwise stated) is: 8100.

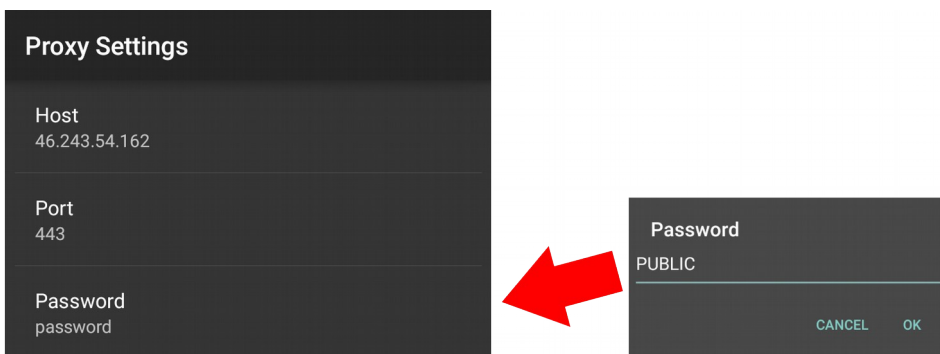
As of: 17:43 UTC [\[Refresh\]](#)
Public Proxies: 936 (309 are busy)
Private Proxies (not shown below): 116

Name	Host Address	Port	Last Updated (UTC)	Status	Ver	Comments
OK1PJV #2	90.179.33.117	8080	17:42	Ready	1.0.9	http://www.cbradio.cz/echoproxy, port 8080, no -R -L connections, tnx.
DL 1JSO GERMANY	90.136.73.79	8100	17:35	Busy	1.2.3	Timeout 12 h ** no -L -R
DL1EKC	echolink.dl1ekc.de	8104	17:43	Busy	1.2.3	Proxy of DL1EKC in Moenchengladbach / Germany. Open to everyone. No timeout. But use it responsibly; please no permanent -L/-R service via this proxy. Please send Your comments to DL1EKC@dl1ekc.de.
OK1PJV #8	77.78.107.129	8100	17:36	Ready	1.0.9	http://www.cbradio.cz/echoproxy, port 8100, no -R -L connections, tnx.
OE5STM	91.118.53.113	8100	17:37	Ready	1.2.3	http://www.tms-itdienst.at
OK9DTZ #380	46.243.54.155	443	17:43	Busy	1.2.3c	Prague, CZ, no timeout, 1Gbps
OK9DTZ #379	46.243.54.154	443	17:38	Busy	1.2.3c	Prague, CZ, no timeout, 1Gbps
OK9DTZ #378	46.243.54.153	443	17:37	Busy	1.2.3c	Prague, CZ, no timeout, 1Gbps
OK9DTZ #377	46.243.54.152	443	17:39	Ready	1.2.3c	Prague, CZ, no timeout, 1Gbps
OK9DTZ #376	46.243.54.151	443	17:43	Busy	1.2.3c	Prague, CZ, no timeout, 1Gbps
OK9DTZ #375	46.243.54.150	443	17:43	Ready	1.2.3c	Prague, CZ, no timeout, 1Gbps

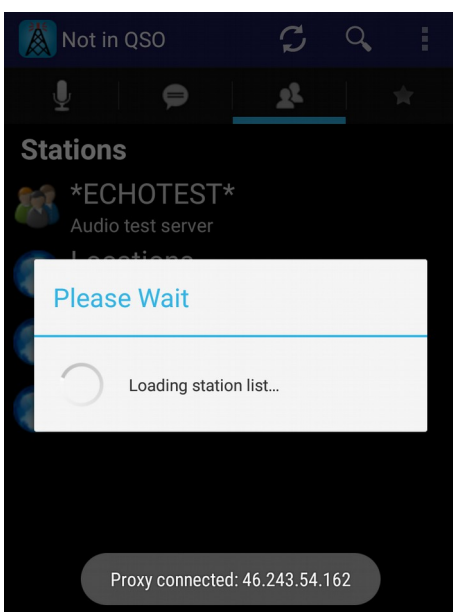
Choose a Proxy Server with Status “Ready”. Don't use a Proxy Server deployed on the network 44 (addresses starting with 44.x.x.x or hostnames ending with *.ampr.org). Change the proxy settings in the app:



Put in the values from the chosen proxy:



Change back to the main application. The proxy is functional (free and reachable) if the station list can be loaded:



You may need to try different proxies until you signed in successfully. Each time you start up Echolink you may need to choose another proxy since it might be in use or is unreachable.

73,
Jann
DG8NGN
(23.03.2015)



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