Configuring Winlink Express for use on AREDN mesh networks

by Orv Beach W6BI

This document describes the steps for using Winlink software over an AREDN mesh network.

Prerequisites:

- You have a connection to the mesh network in your ham shack
- Your Winlink computer has an IP address from the mesh network
- Winlink Express is installed and operational

There are two methods of moving Winlink traffic via the ham network:
1. Via a Winlink Post Office, or
2. Point-to-point between two Winlink Clients

Sending traffic to a Post Office over the ham network

The number of Winlink Post Offices listening on the mesh network is growing. For best results, pick one that you know to be the closest to your location. In order to find a local Post Office, open a session to a Telnet Post Office:

![Screenshot of Telnet Post Office]

In the window that opens select Add Server:
Configuring Winlink Express for use on AREDN mesh networks

In the window that opens, click on Update AREDN MESH Node List

In the window that opens, click on Update MESH Nodes
Configuring Winlink Express for use on AREDN mesh networks

You should see this pop-up window. Note: the number of post offices found will vary as they come and go. Click OK

![Success window]

Click Exit.

![Update AREDN MESH Node List window]

You’ll be returned to the Add Post Office Server window. In the Name: drop-down, select the Post Office closest to you. For this tutorial we’re using the Sulphur Mountain Post Office.

NOTE: If you leave Winlink Express running all the time, set the Polling time to something other than Disabled, so you’ll periodically pull Winlink email destined for you.
Click Save.

You’ll be returned to the “Telnet Session to Network Post Office Server” window. In this example, K6PVR-SVR should be selected as the Network Server.

If you’ve selected a Polling period, the “Time to next Autoconnect” should be counting down.

In order to test it, click on Start to start a connection cycle. If successful, you should see the connection sequence shown below. It should take less than 10 seconds – a bit longer if there’s mail waiting for you.
Sending traffic to a peer client over the ham network

Sending traffic point to point is different from sending it to a post office. You first need to enter the destination station as an endpoint. To do that, you must know the IP address and port number for the destination Winlink program on the remote PC. You can find that by either asking the station operator, or frequently it's advertised on their mesh node, and you can determine its IP address by pinging it on the command line.

Once you've determined the destination computer's IP address, open a session to Telnet Peer to Peer and click on Add station.
Configuring Winlink Express for use on AREDN mesh networks

Enter the IP Address. The Name does not have to be the hostname of the destination computer. It’s a tactical name – it could be “Bob’s Winlink” or “Red Cross Chapter”, whatever is meaningful to you. If you want to set a Polling time, it can be done on this screen. Click Save.

When you’ve completed creating a message to go directly to a local station, it must be saved as a Peer-to-Peer Message. You can then post it to the Outbox as usual.

You can then open a Telnet Peer-to-Peer Session. Ensure your destination station is selected, and Start the session. Your Winlink client will connect to the destination and transfer your message(s).
Configuring Winlink Express for use on AREDN mesh networks

NOTE: the receiving station must also be in the Peer-to-Peer mode for the transfer to work.