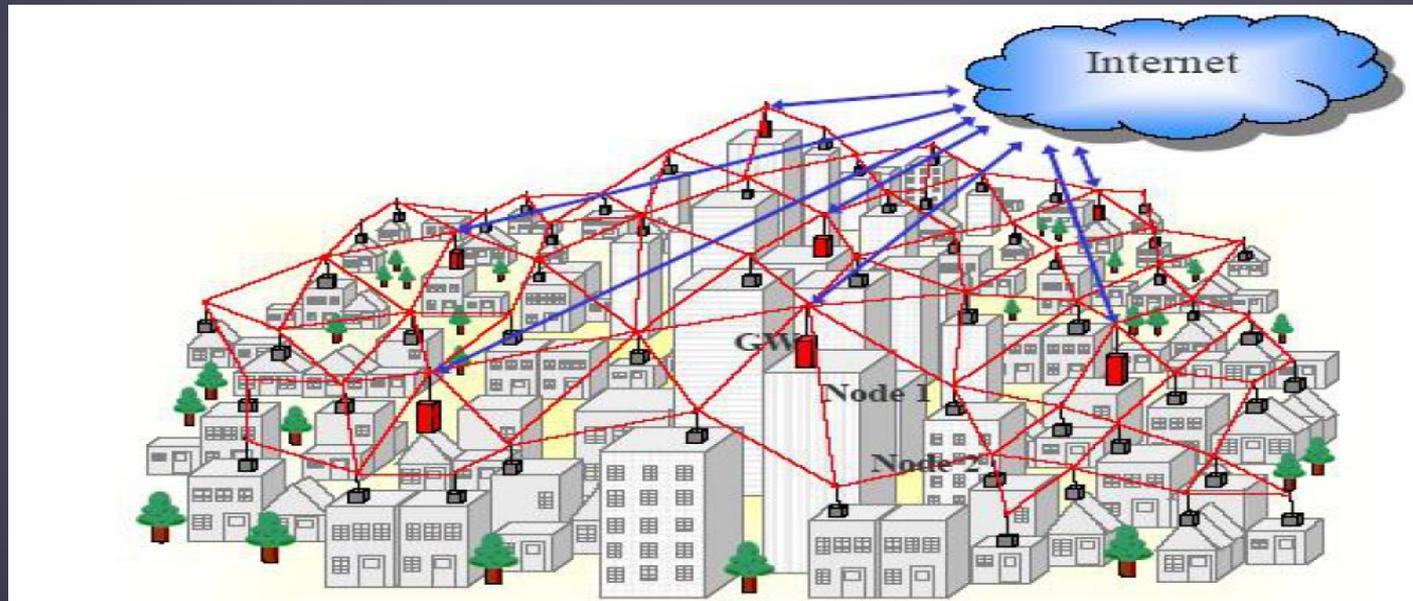


Winlink

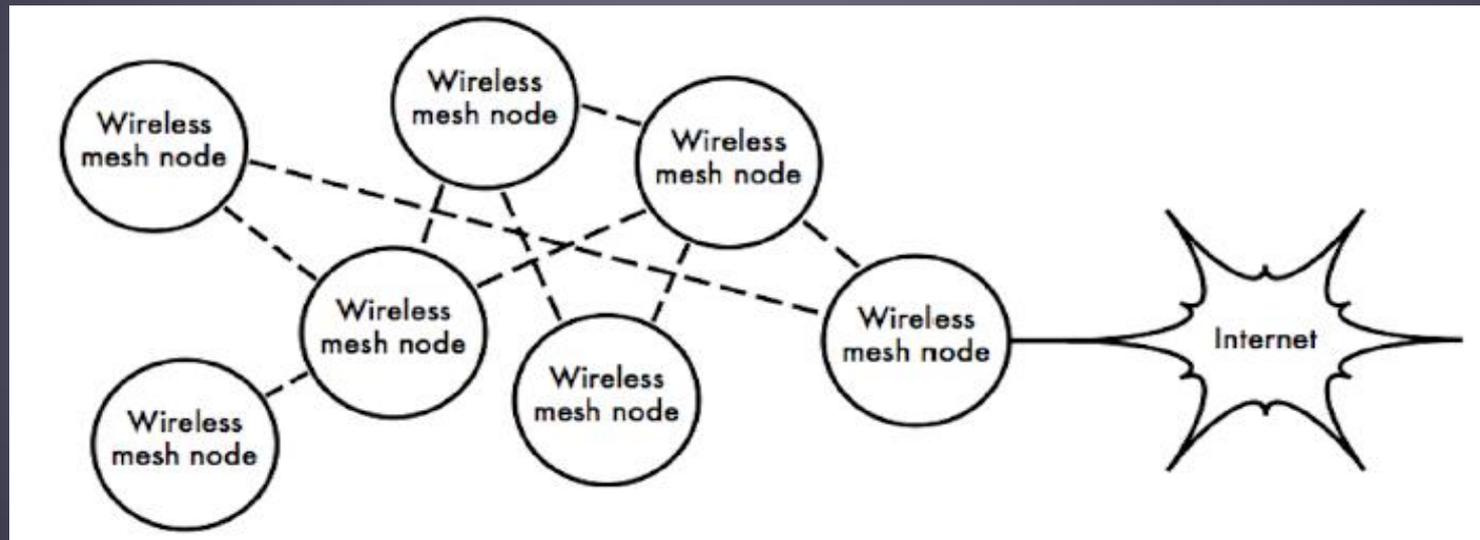
Support for MESH Networks

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What Is a MESH Network?

- A MESH network is a set of “nodes” that pass packets to each other. Each node can forward packets to other nodes.
- Every node can reach every other node directly or indirectly.
- There is no “central control;” all nodes are peers.
- If a node goes down, the network routes around it.



Winlink Support for MESH Networks

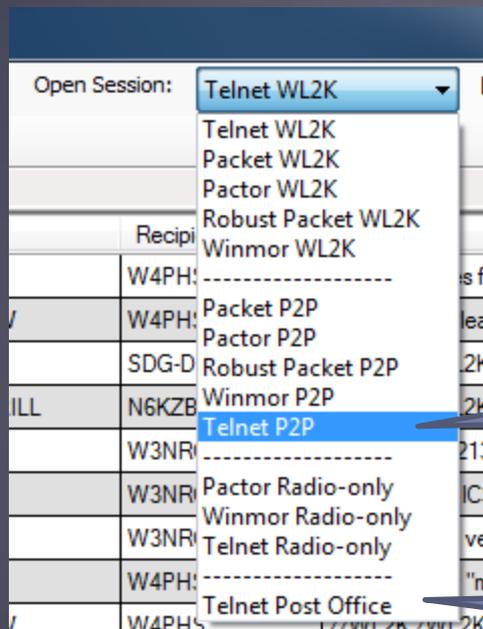
- Winlink software provides services optimized for MESH networks:
 - RMS Express can make peer-to-peer Telnet connections through a MESH network.
 - RMS Relay can operate as a network post office providing a message exchange for the network.
 - RMS Express can make Telnet connections to a network post office.

RMS Express Peer-to-Peer Telnet Connections

- Provides a direct Telnet connection between two computers running RMS Express on a network.
- Designed for MESH networks, but it can be used with a LAN or through the Internet.
- Allows high speed, error-free transfers of large files.
- File attachments up to 5 MB are allowed.
(Regular Winlink limits messages to 120 kb.)
- RMS Express stores a list of peer-to-peer stations.
- Optionally, RMS Express can require a password when incoming connections are requested.

RMS Express MESH Sessions

- For a peer-to-peer Telnet connection to a station running RMS Express, select **Telnet P2P** session.
- For a connection to an RMS Relay network post office, select **Telnet Post Office** session.



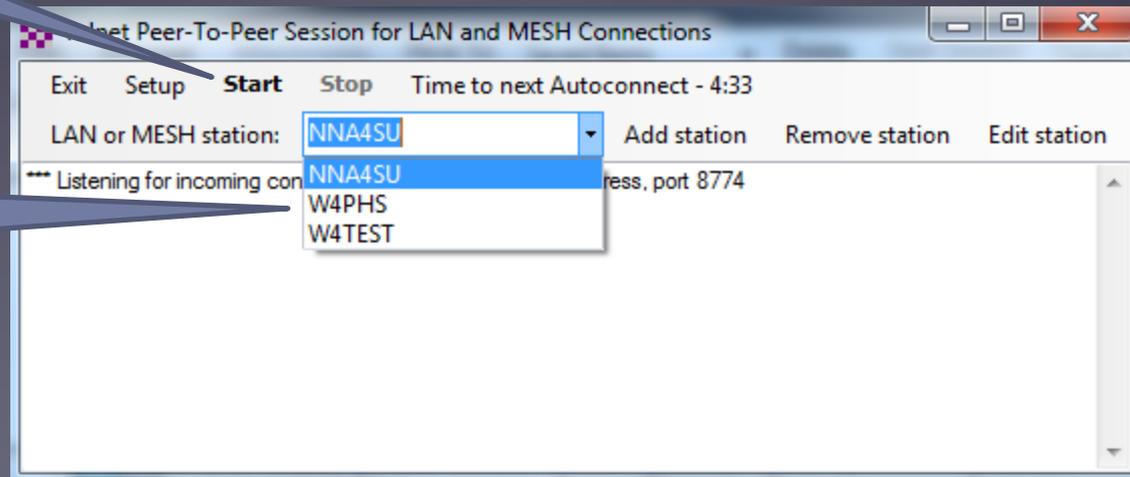
Start Telnet peer-to-peer session

Start Telnet connection to network post office (RMS Relay)

Peer-to-Peer Telnet Session Screen

Click Start to try to connect

Drop-down selection list of peer stations



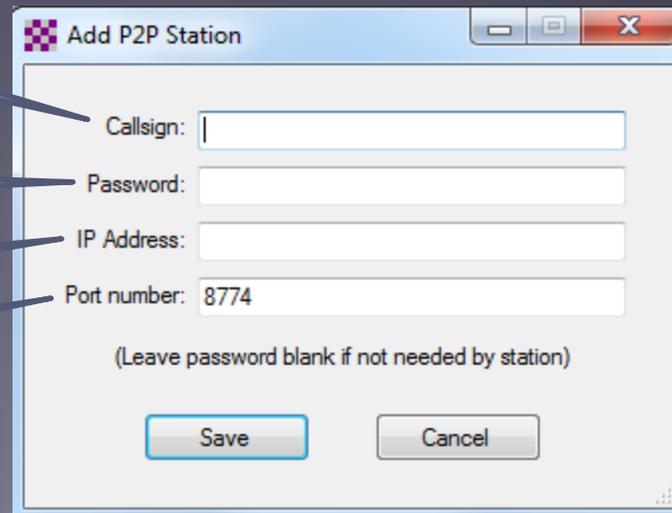
Address Book Entry for A Peer Station

Callsign of peer station

Password required by peer station

IP address of peer station

Port number the peer station is monitoring



The image shows a screenshot of a software dialog box titled "Add P2P Station". The dialog box has a title bar with a close button (X) and a maximize button. It contains four input fields: "Callsign:" (empty), "Password:" (empty), "IP Address:" (empty), and "Port number:" (containing "8774"). Below the input fields is a note: "(Leave password blank if not needed by station)". At the bottom of the dialog box are two buttons: "Save" and "Cancel". Four blue callout boxes with white text and arrows point to the "Callsign:", "Password:", "IP Address:", and "Port number:" fields respectively.

Save Cancel

RMS Relay Network Post Office Server

- A Network Post Office is provided by one or more computers on the network running RMS Relay.
- A post office receives messages from users on the network and holds them until they are picked up the recipients.
- RMS Relay provides Telnet, SMTP and POP servers for RMS Express and conventional e-mail programs like Outlook. Messages can be exchanged between RMS Express and programs like Outlook.
- RMS Relay is very easy to configure as a post office. No radio is required. Internet is not needed.

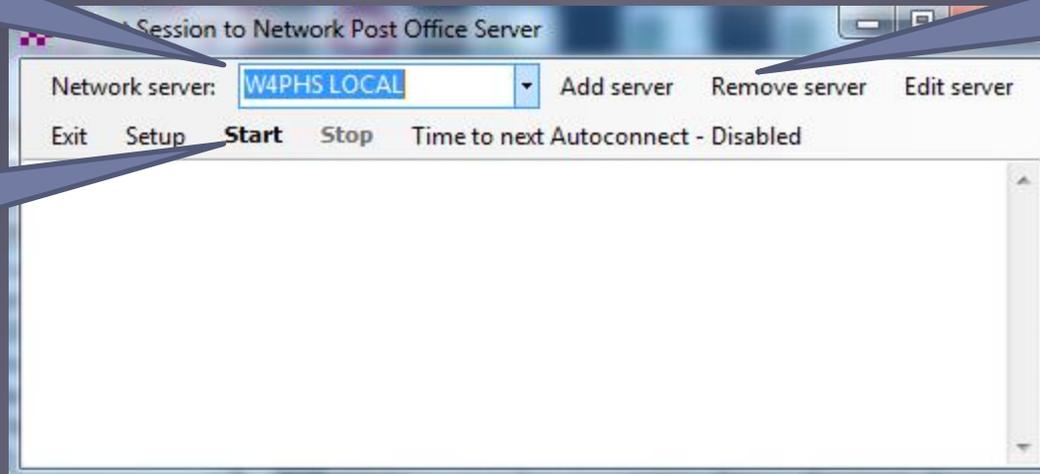
RMS Express Connections to Post Office

- Start a Telnet Post Office Session.
- Select the server address book entry or add, remove, edit an address book entry.

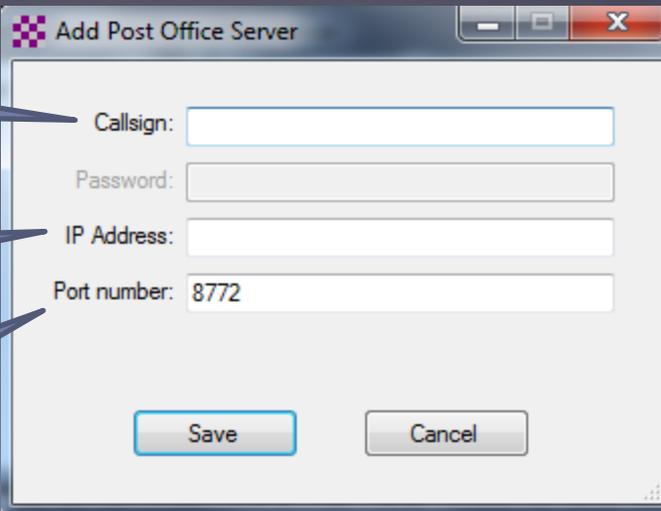
Select the address book entry for the server

Add, remove or edit a server address book entry

Click Start to connect to the server



Post Office Server Address Book Entry



The image shows a software dialog box titled "Add Post Office Server". It contains four input fields: "Callsign:", "Password:", "IP Address:", and "Port number:". The "Port number" field is pre-filled with the value "8772". Below the fields are two buttons: "Save" and "Cancel". Three blue callout boxes point to the "Callsign:", "IP Address:", and "Port number:" fields, providing their respective labels.

Callsign of the post office server

IP address of the server

Port number the server is monitoring



- Thank you!
- Questions?

- Information about Winlink can be found at www.winlink.org
- White papers about Winlink can be found at www.qrz.com/db/W4PHS
(QRZ.com entry for W4PHS)