Winlink
Support for MESH Networks

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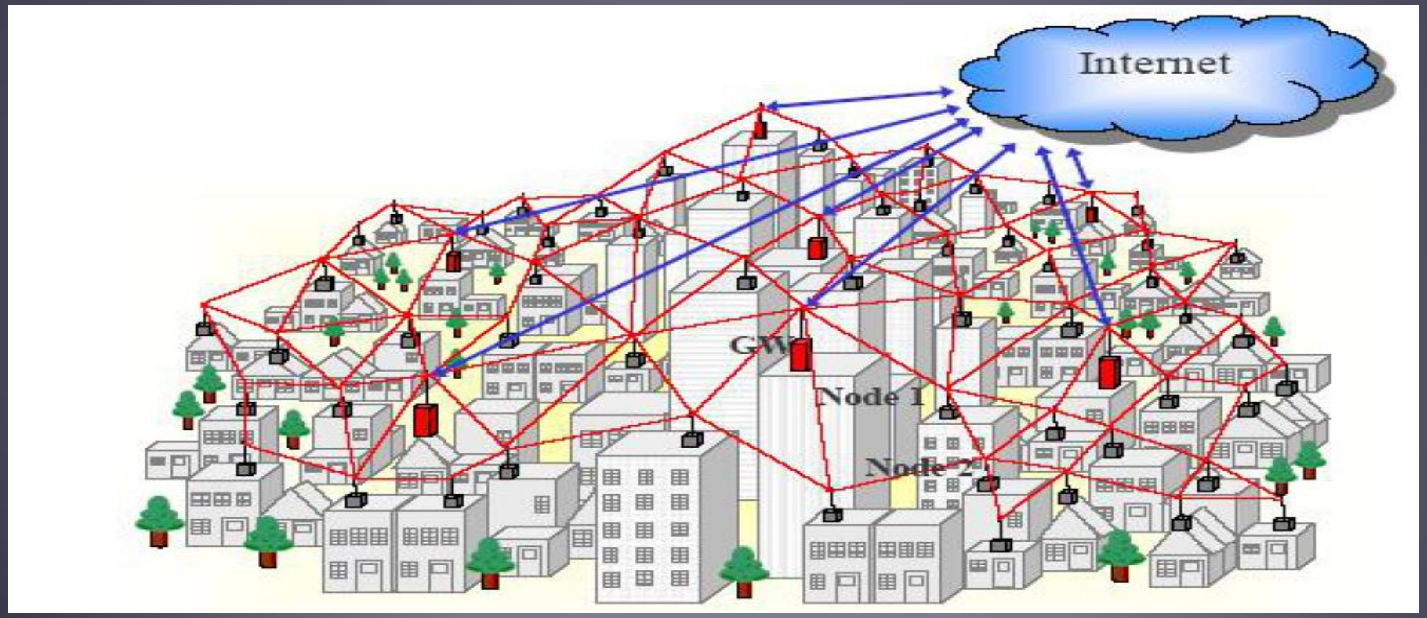
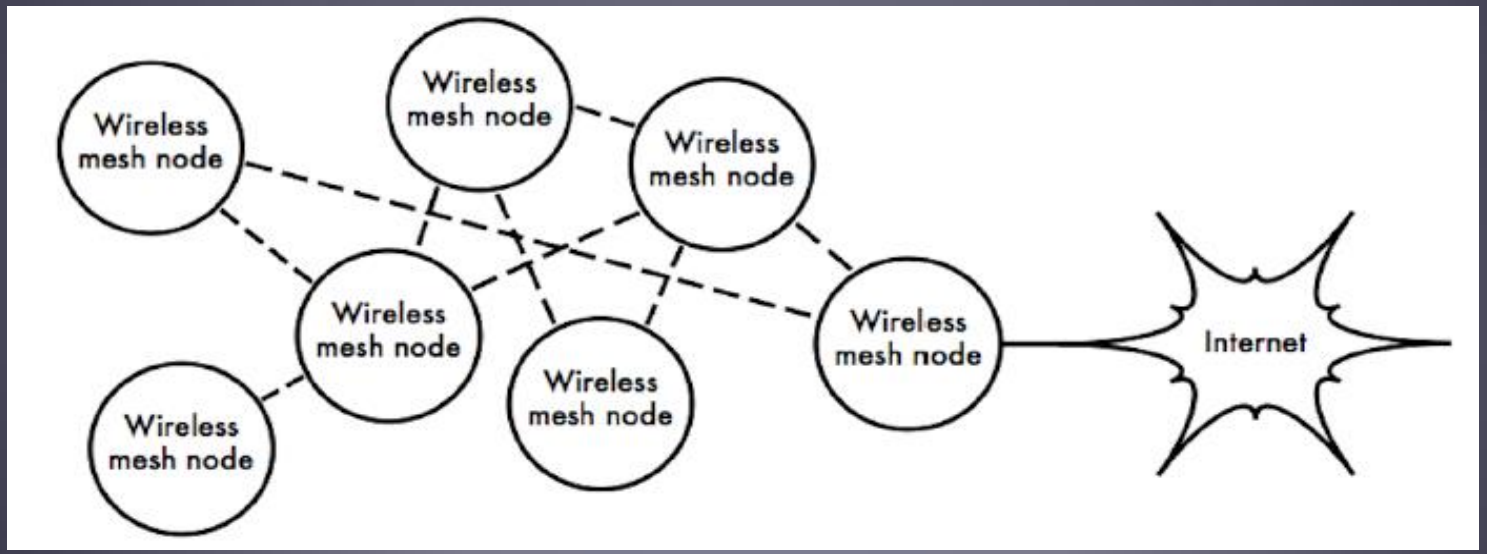
Winlink Development Team



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

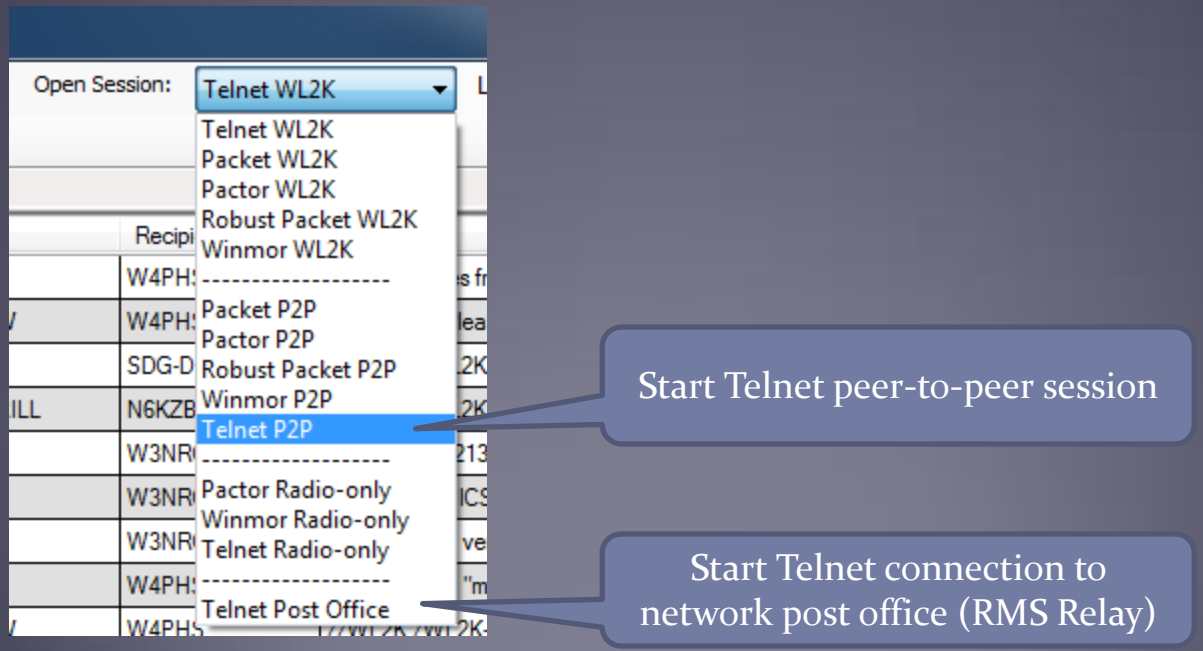
- Winlink software provides services optimized for MESH networks:
  - RMS Express can make peer-to-peer Telnet connections through a MESH network.
  - RMS Relay can operate as a network post office providing a message exchange for the network.
  - RMS Express can make Telnet connections to a network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

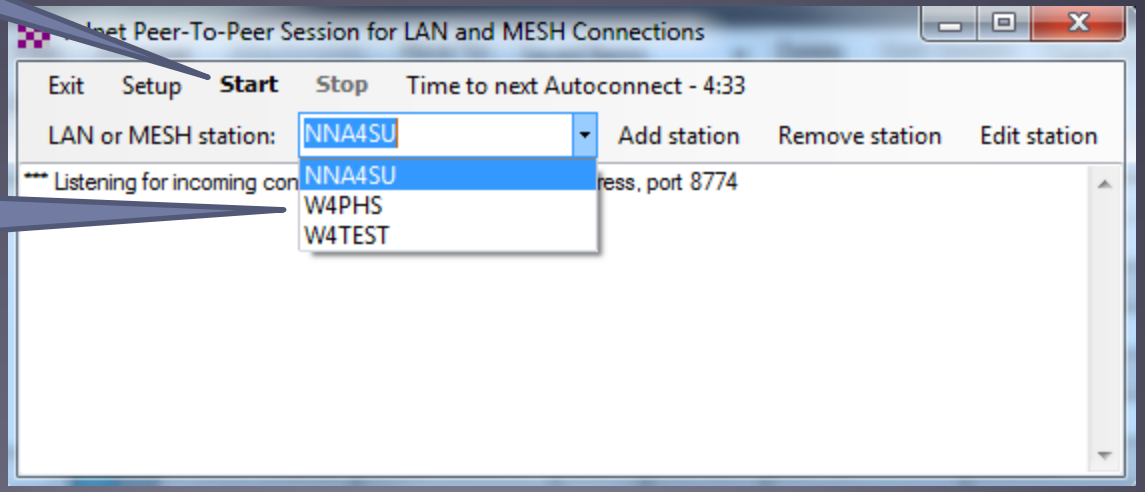
- For a peer-to-peer Telnet connection to a station running RMS Express, select **Telnet P2P** session.
- For a connection to an RMS Relay network post office, select **Telnet Post Office** session.



Peer-to-Peer Telnet Session Screen

Click Start to try to connect

Drop-down selection list of peer stations



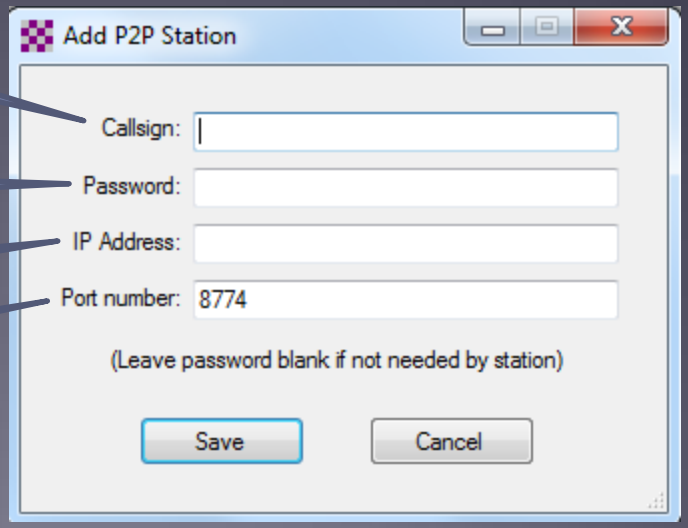
Address Book Entry for A Peer Station

Callsign of peer station

Password required by peer station

IP address of peer station

Port number the peer station is monitoring



RMS Relay Network Post Office Server

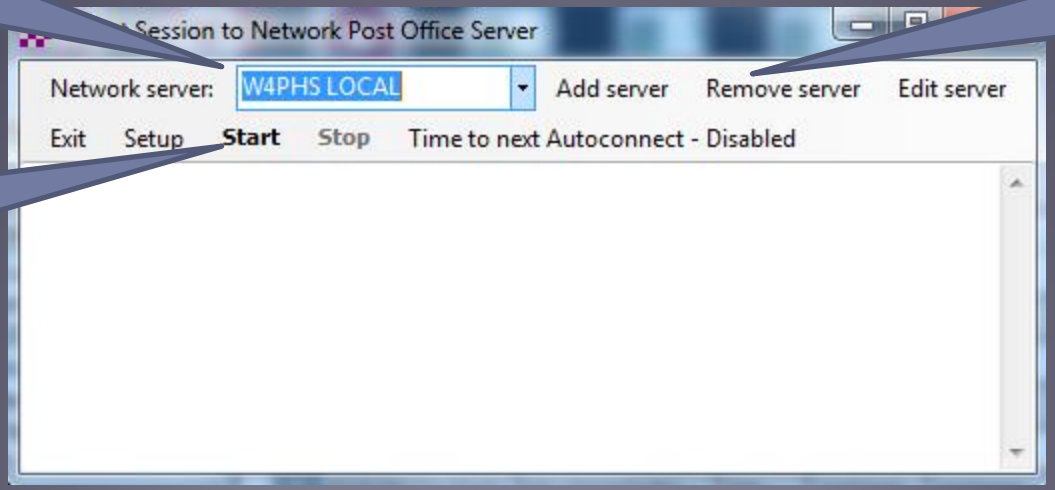
- A Network Post Office is provided by one or more computers on the network running RMS Relay.
- A post office receives messages from users on the network and holds them until they are picked up the recipients.
- RMS Relay provides Telnet, SMTP and POP servers for RMS Express and conventional e-mail 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



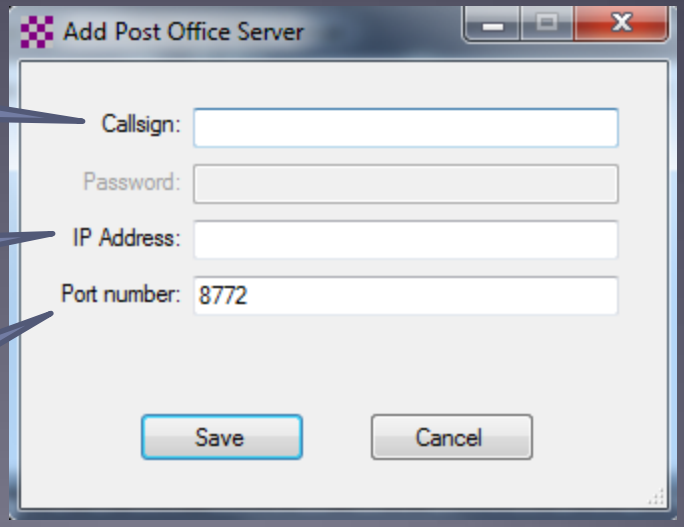
Click Start to connect to the server

Post Office Server Address Book Entry

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)