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Winlink

Operating Modes

When composing a new message, you must choose how the message will be sent:

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- Winlink Message: Your station makes a radio connection to a Radio Message Server (RMS). The RMS makes an Internet connection to a Common Message Server (CMS) that is the central message repository. Your messages are sent via radio to the RMS and then through the Internet to the CMS until the recipient connects and downloads messages addressed to themselves. This mode is efficient and highly reliable. Winlink operates multiple CMS that synchronize with each other frequently to provide completely redundancy. If an RMS is down and unable to receive a connection, the client can connect to a different RMS. Since all messages are stored in the central CMS database, it doesn't matter which RMS the sender and recipient connect to.
- **Radio-Only Message**: Where as the previous mode relies on an Internet connection between the RMS and a CMS, the Radio-Only mode does away with the CMS and the internet connection it relies on. Instead, messages are sent to a designated RMS for storage until it is retrieved by the recipient. This mode of operation can operate with local and total Internet outages.
- **Peer-To-Peer Message**: This mode of operation transfers messages directly from the sender to the recipient without going through an RMS or a CMS and without the Internet. This is like a "simplex" mode, which requires:
 - $\circ~$ Both stations to be on the air at the same time and on the same frequency.
 - $\circ\,$ Both stations to use the same transmission protocol (Packet, Winmor, Pactor, etc).

So the steps to compose a message are to:

- 1. Select how the message will be sent as.
- 2. Enter the recipient's address (usually their callsign, which may or may not require a dash number)
- 3. And lastly, after the message is written, **Post to Outbox**, which saves the message locally marks it to be sent.

Before making a connection (section below), it's possible to post multiple messages to the outbox.

Open Session

The type of connection needed is chosen from the **Open Session** drop down menu.

Winlink Messages

Messages that are marked to be sent as Winlink Messages require a Winlink connection (top group):

• **Telnet Winlink** sends the message directly to the CMS via the Internet, by-passing the RMS. It's pretty much like sending an email and doesn't require a radio connection.

- **Packet Winlink** is typically a VHF or UHF connection to an RMS, which will then connect to a CMS via the internet.
- **Pactor Winlink** is an HF connection to an RMS. It requires an expensive **PACTOR** TNC between the radio and computer.
- Winmor Winlink is another HF connection to an RMS that doesn't necessarily require a TNC. The IC-7300, for example, can connect to the computer directly with a simple USB cable. The connection is slower than PACTOR however. See a Winmor for more information.

For Winlink connections, the address and frequency of the connection must match that of a given RMS, which can be found in the **Channel Selection** table:

Peer-to-Peer (P2P) Messages

Messages that are marked to be sent as Peer-to-Peer Messages require a P2P connection (bottom group):

- Packet P2P is a direct VHF or UHF connection between the two stations exchanging messages.
- **Pactor P2P** is a direct HF connection between the two stations exchanging messages using the PACTOR protocol.
- Winmore P2P is a direct HF connection between the two stations exchanging messages using the Winmor protocol.

Start

So once the appropriate session is open, the right frequency is selected

Main Sources

https://winlink.org/content/overview_winlink_hybrid_network