

WINLINK EXPRESS

“PROCEED TO SUCCESS”

Topic's

1. Packet radio equipment
2. P2P & WL2K
3. Winlink and Network Nodes
4. Simple P2P/WL2K Scripts

*Created for **CVRD** by Ed, VE7ED.*

Packet Radio

(Standard Equipment)

- Data Transceiver - Motorola Maxtrac or newer
- TNC - Kantronic's KPC Series
- Cabling - RX audio, Tx Audio , PTT, Gnd and 12 Volts
- Power Supply - 12.0 volts to 13.8 volts maximum
- Antenna - Sinclair 210C or equivalent
- Computer - Panasonic Tough book

Note: Radio dedicated to Packet Radio only.

Accronyn's

- **P2P** - Packet station to Packet station
- **SSID** - Service Set ID, it is used for low level identification
- **WL2K** - Packet to RMS Gateway used for Email
- **RMS Packet** - VHF/UHF message gateways
- **RMS Trimode** - HF message gateways
- **RMS** - Remote Mail Server used to access to Winlink CMS's
- **CMS** - Common Mail Server, redundant mirrored servers
- **WINLINK SYSTEM** - Controlled RMS Packet/Trimode Gateways and 5 redundant mirrored Server.
- **CMS Locations** - Halifax, Wien, Brentwood, San Diego, Perth
- **Packet** - Data, sent over VHF/UHF at a 1200 baud rate
- **Pactor** - Data, sent over Pactor 4 can achieve up to 10500 bps

What is the “Winlink System”

To send an email....

- **VHF/UHF Packet** you need to connect to a RMS Packet Gateway normally with the SSID of 10.
Example = VE7SKR-10
- **HF Pactor** you need to connect to a RMS Trimode Gateway normally without the SSID.
Example = VE7RYF

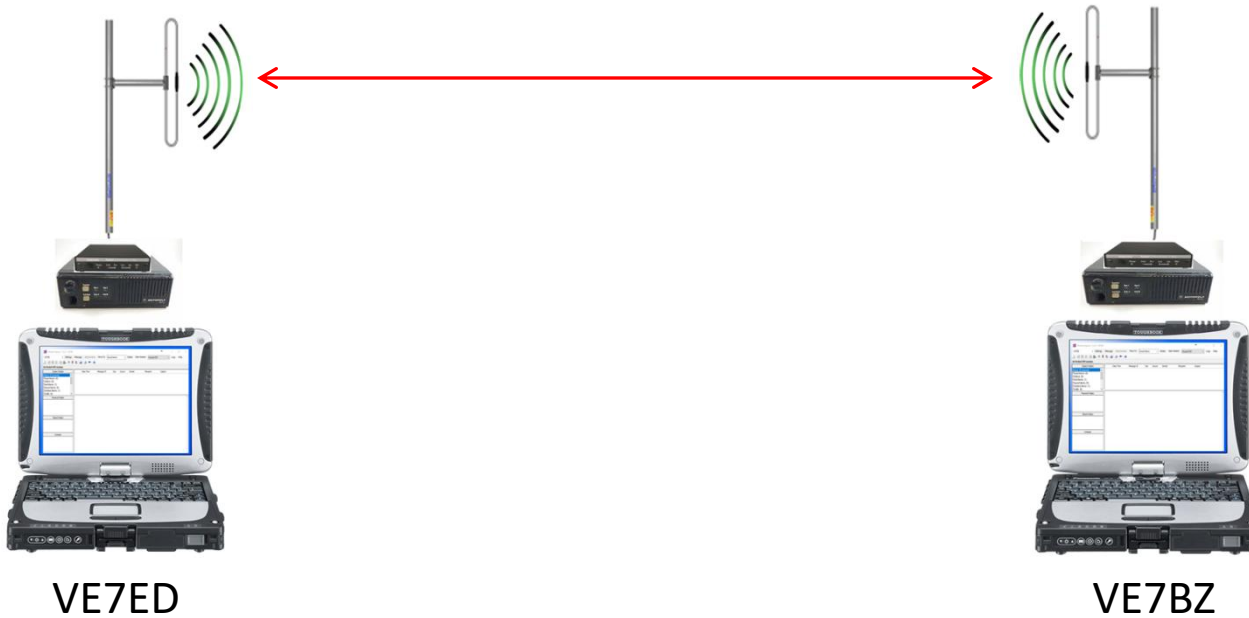
What is a “Network Node”

- Node is a packet station that does “Not” use a computer just the Radio/Tnc/Antenna/Power supply.
- It is a part of a controlled packet radio repeating system.
- Equipment - it needs to be Net compliant TNC like a Kantronic’s KPC Series with version 9.1 firmware
- Example of a Non compliant TNC - TNC-X
It does not have “Node” capability

P2P vs WL2K

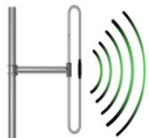
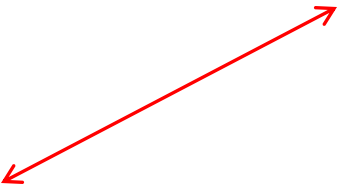
- P2P - Callsign only (no email address's)
- All callsign's through a Network node or P2P stay as callsign's only.
- Example - VE7ED = VE7ED
- **Note:** only time the callsign is changed is when sending a message through a Winlink RMS Gateway to a CMS

P2P - Peer to Peer (station to station)

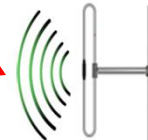


P2P through a Network Node

VE7SKR-8



VE7ED



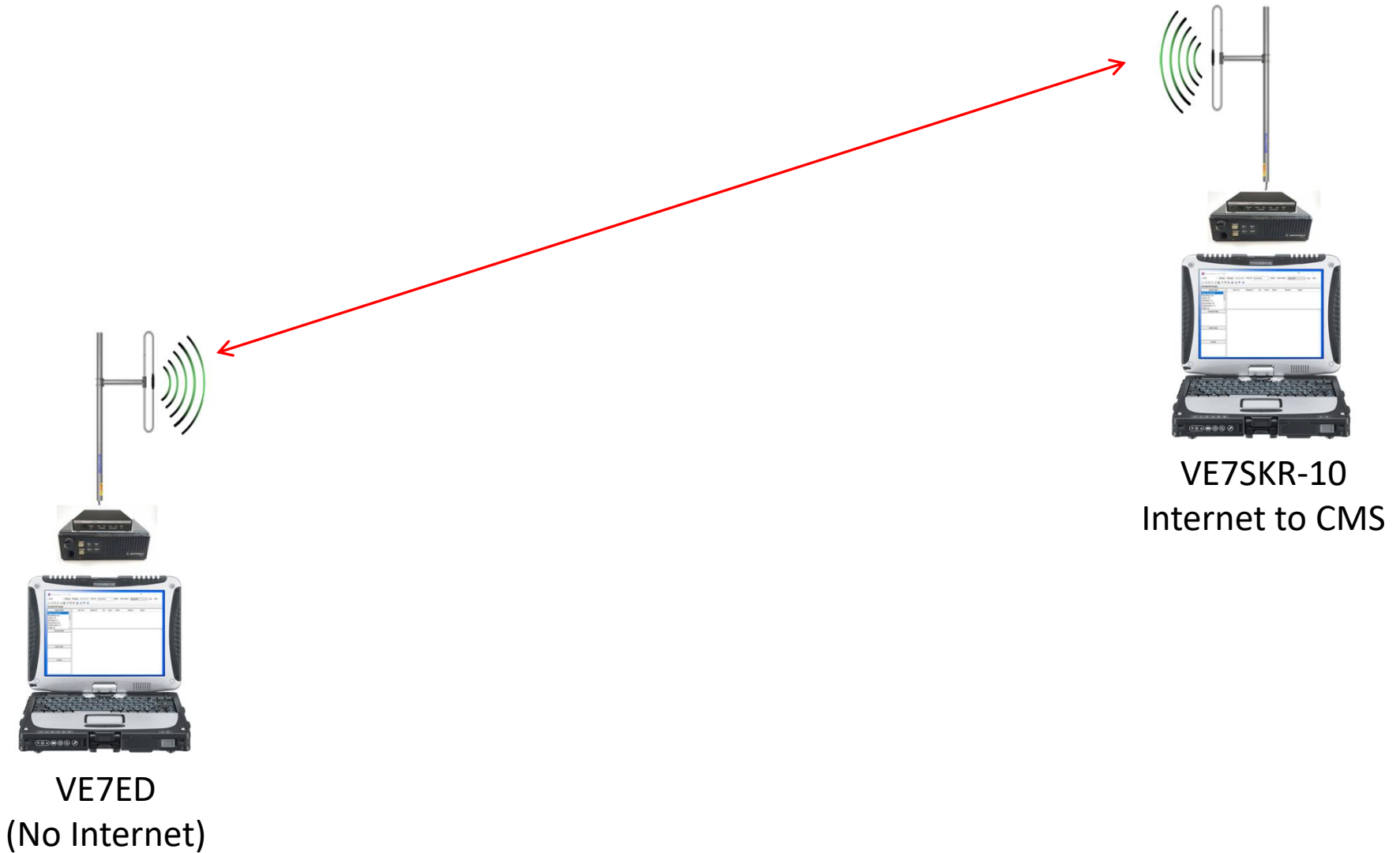
VE7BZ

WL2K vs P2P

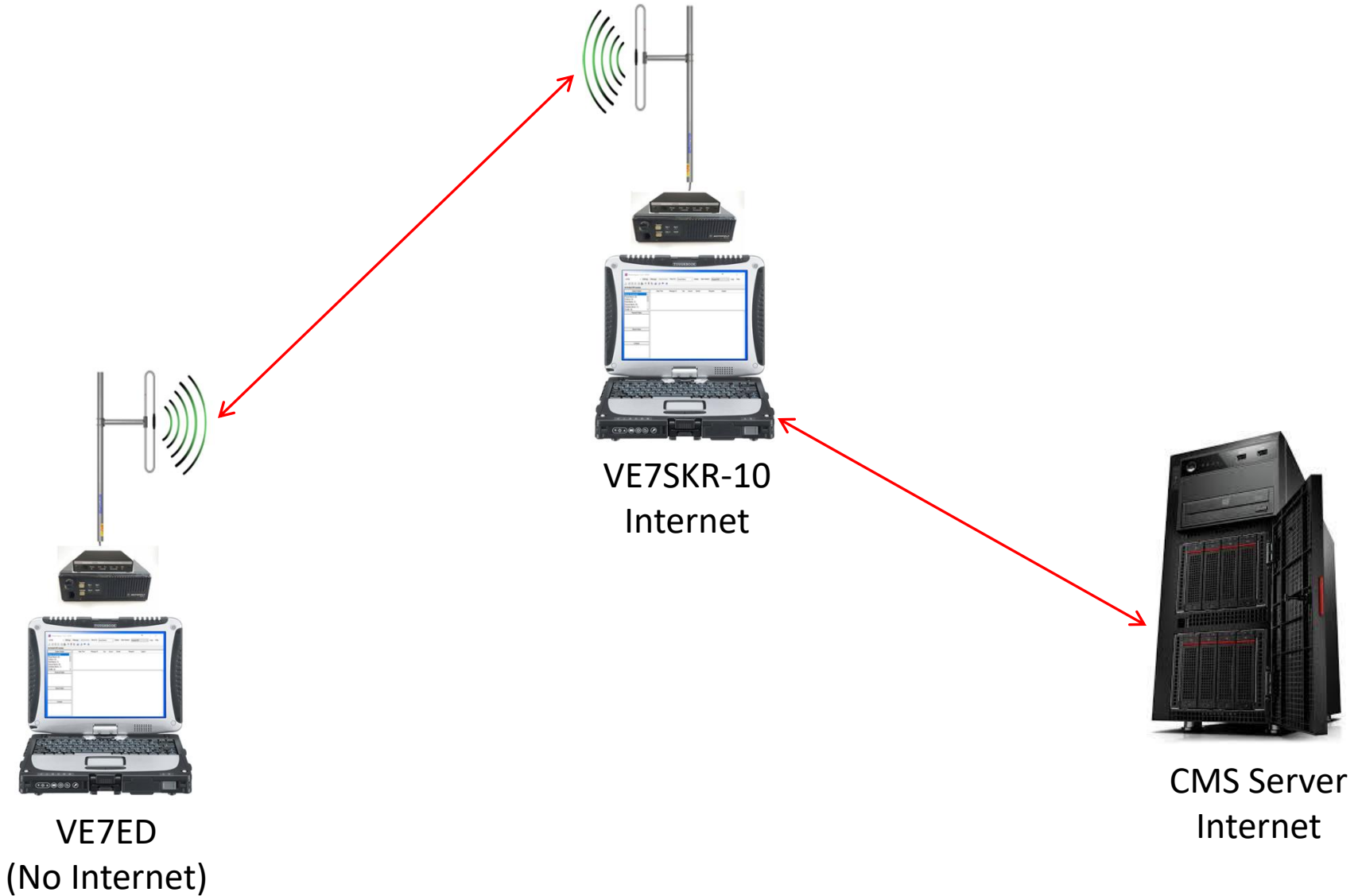
- WL2K - Email address
- Note: If a callsign used in the “To:” field of a message it will be converted to callsign@winlink.org when being processed through a RMS Gateway to a CMS.

Example - VE7ED = ve7ed@winlink.org

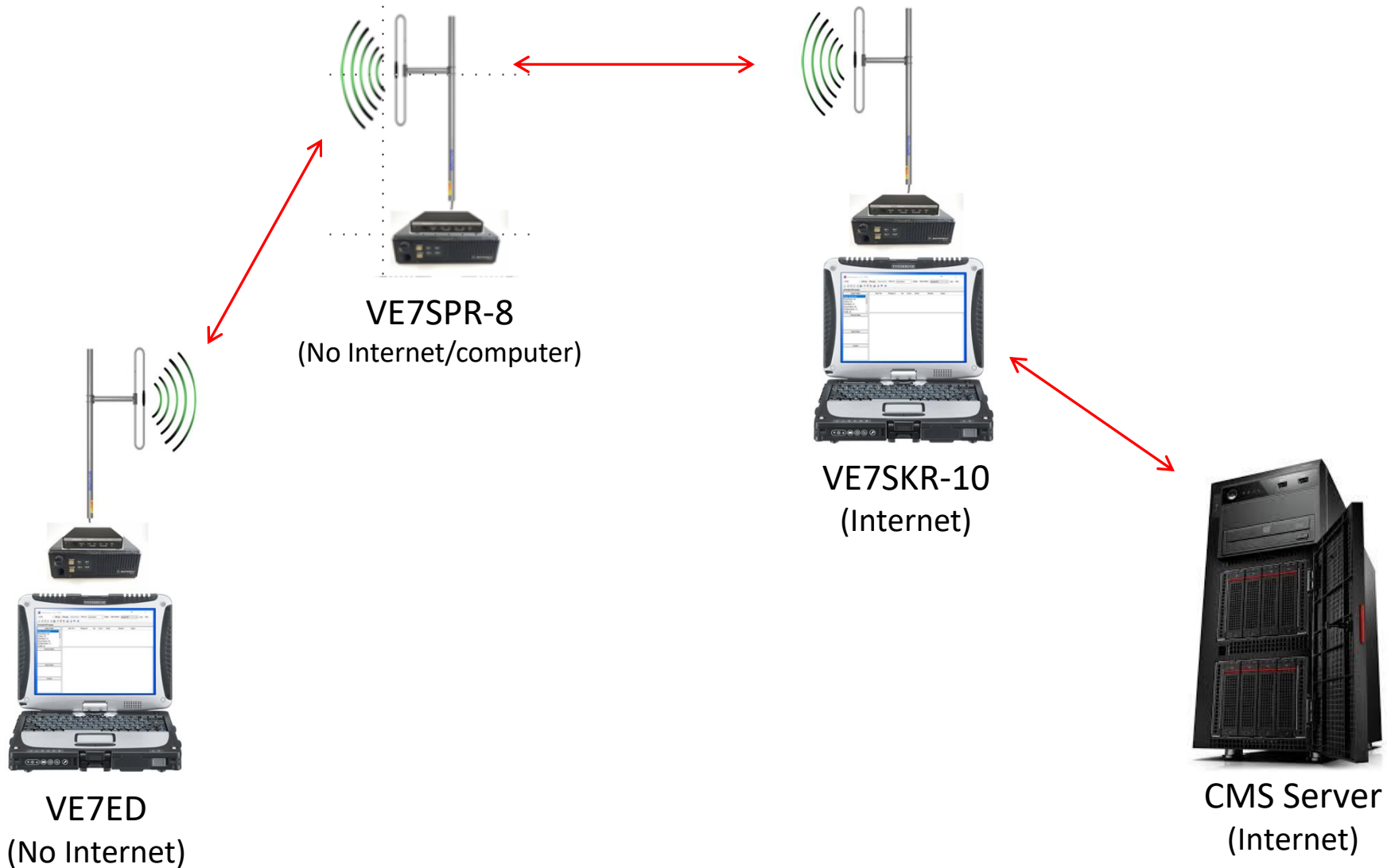
WL2K - Winlink Network



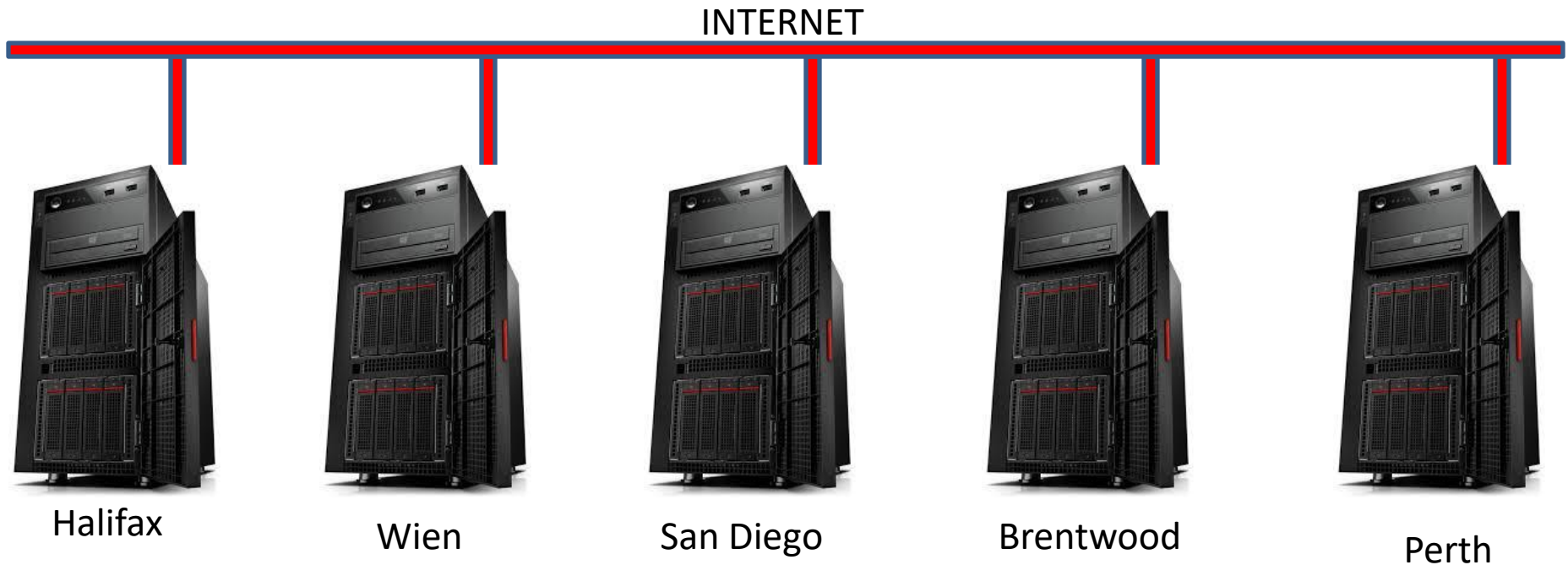
WL2K - Winlink Network



WL2K using Network Nodes



Winlink Network



“Winlink Servers” are all mirrored or common message servers.

When a message get to one server it is then shared to all of them.

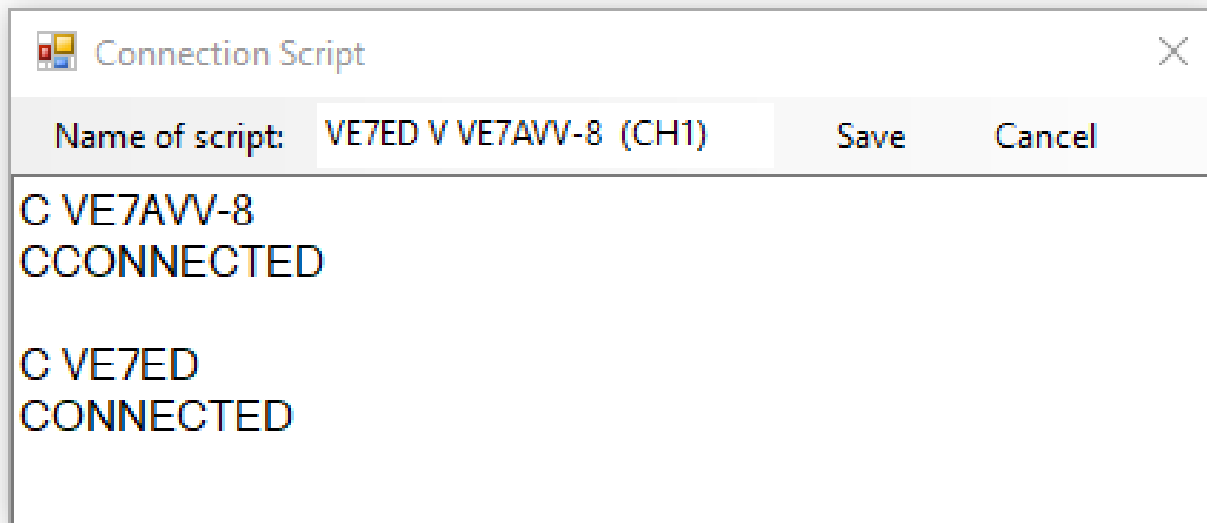
When a message gets deleted from one the message is deleted from all of them

Scripts using - P2P

Naming your P2P script

End station (ve7ed), Via station (ve7avv-8), Channel

Example - VE7ED V VE7AVV-8 (Ch1)



Scripts using - WL2K

Naming your WL2K script

End station (ve7skr-10), Via station (ve7avv-8), Channel

Example - VE7SKR-10 V VE7AVV-8 (Ch1)



Question's

- For help on any of the slides
- Send Email to ve7ed.ed@gmail.com and include your phone number that is at your packet station.
- **Note:** My “Support” is done by using Teamviewer - Remote Desktop software

Download TeamViewer