WINLINK 2000 (WL2K) AND ARES

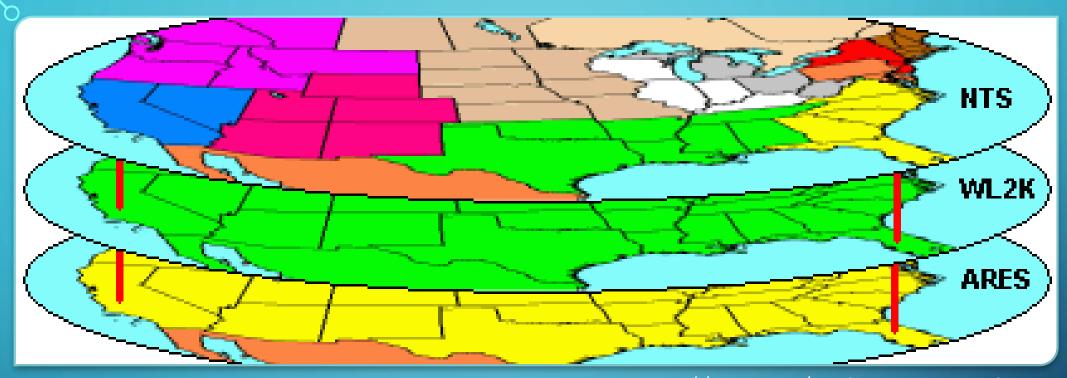
BILL POND NOWP AND MIKE MCPHERSON KQ9P

ALBEMARLE AMATEUR RADIO CLUB

14 OCTOBER 2014

WHY DO WE CARE ABOUT WL2K?

- The technological evolution of the packet BBS system
- Multi-band, multi-mode for maximum choice, flexibility, and ability to get the traffic through
- Familiar email interface and capabilities, including attachments and connectivity to the Internet for communication with non-WL2K email addresses
- ARES® units all over the country standardizing on WL2K, including us here in Virginia District 3 (Albemarle, Buckingham, Cumberland, Fluvanna, Greene)



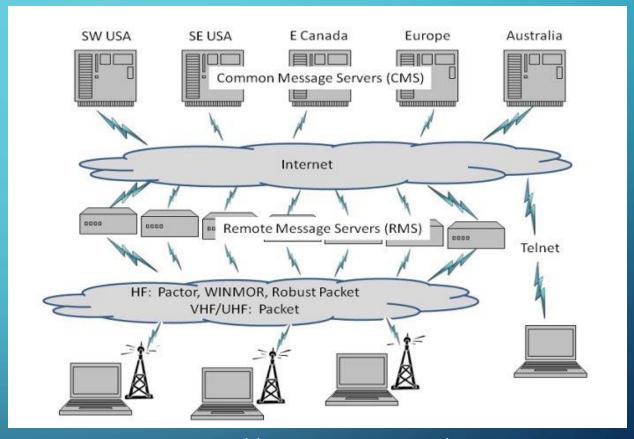
http://wx4j.com/WL2KLayersWeb12.htm

WHERE DOES WL2K FIT?

Immediate delivery in most cases, so it fits in as a tactical communication capability.

HOW DOES WL2K WORK?

- Redundant Common Message Servers (CMS email servers) around the world
- Local and regional/national/international Radio Mail Server (RMS) Gateways supporting multiple bands and modes for end-station access
- With the latest software release, the capability to go radio end-to-end if the RMS Gateway Internet connection fails



http://ntstalk.wikidot.com/resource:nts4ares

WHAT IS WL2K GOOD FOR?

- Local ARES® and Served Agency traffic regardless of location
- Inbound and outbound health and welfare traffic
- Liaison with NTS/NTSD



http://wx4j.com/WL2KLayersWeb12.htm

VHF/UHF RMS PACKET GATEWAYS

 RMS Packet Gateways typically support at least one VHF frequency and sometimes one or more UHF frequencies, as well.



http://www.winlink.org/RMSChannels

HF RMS GATEWAYS

- HF RMS Gateways typically scan at least one frequency in each of 80/40/20/15/10m bands
- HF RMS Gateways typically support multiple modes, including WINMOR, PACTOR I/II/III, and Robust Packet
- Many HF RMS Gateways also have integrated VHF/UHF RMS Packet Gateways



http://www.winlink.org/RMSChannels

LOCAL VHF/UHF RMS PACKET GATEWAYS

- KE4LWT VHF RMS Packet Gateway
- NOWP UHF RMS Packet Gateway
- W4UVA (coming soon) HF/VHF/UHF RMS Gateway with RMS Relay (radio allthe-way)



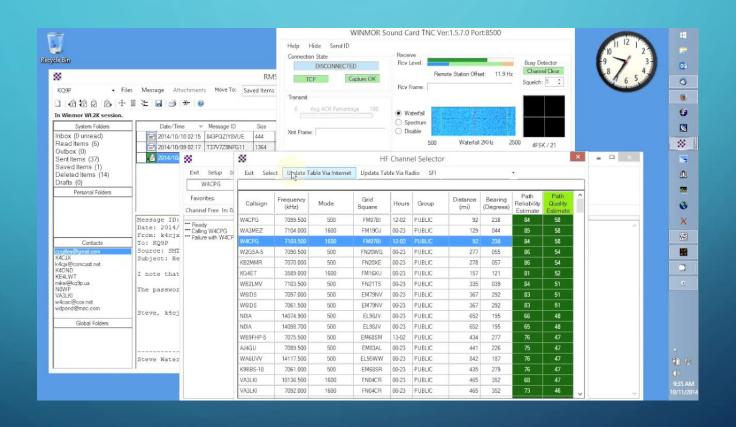
http://www.winlink.org/RMSChannels

BUT CAN I DO THIS?

- ABSOLUTELY!
- If your station is equipped with a hardware or software packet TNC then all you need is a free software download to become active on WL2K on VHF/UHF
- If your station is equipped for sound card digital modes (i.e., PSK-31) on HF then all you need is a free software download to become active on WL2K on HF
- Or find yourself a Digital Elmer; there are a bunch in the Club



HF WINMOR SIGHTS AND SOUNDS



WHERE DO I LEARN MORE?

- www.winlink.org the source for all things WL2K!
- Google "wl2k getting started" for lots of step-by-step instructions prepared by other ARES® units
- Good videos on the Travis County ARES® YouTube channel at www.youtube.com/user/TravisCountyARES
- Mike KQ9P (mike@kq9p.us)
- Bill NOWP (wdpond@mac.com)

THANKS FOR YOUR INTEREST!

QUESTIONS?

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