Why You Need Winlink

in Your EmComm
Toolbox

21st Century Communications

POTS

Cellular telephones

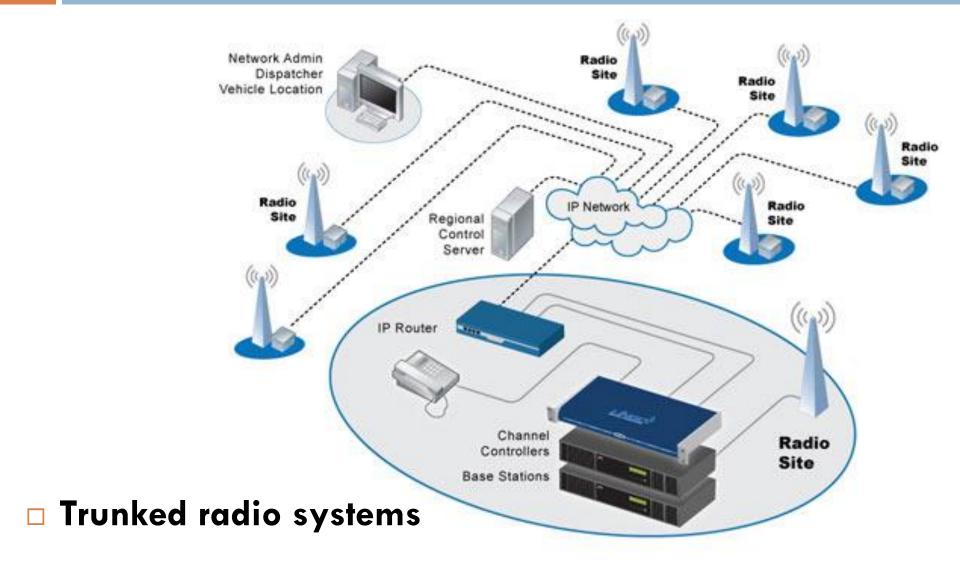


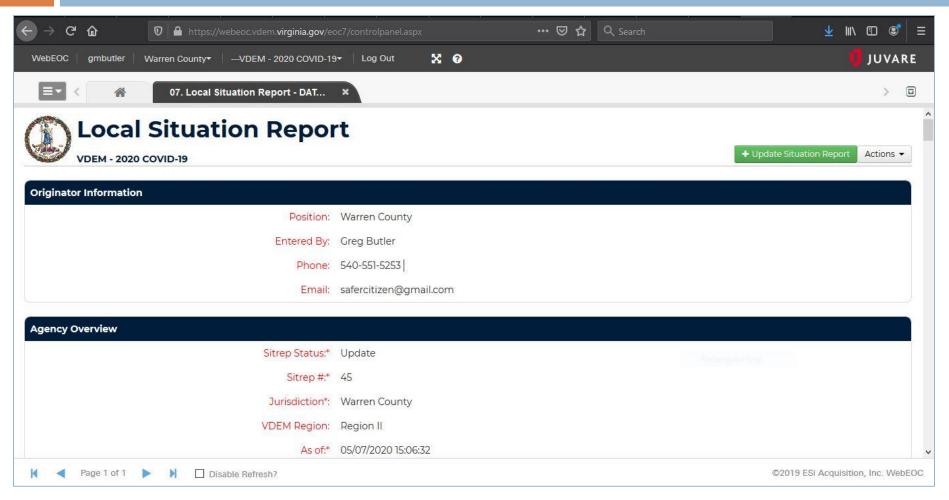


Satellite telephone

Land Mobile Radio System

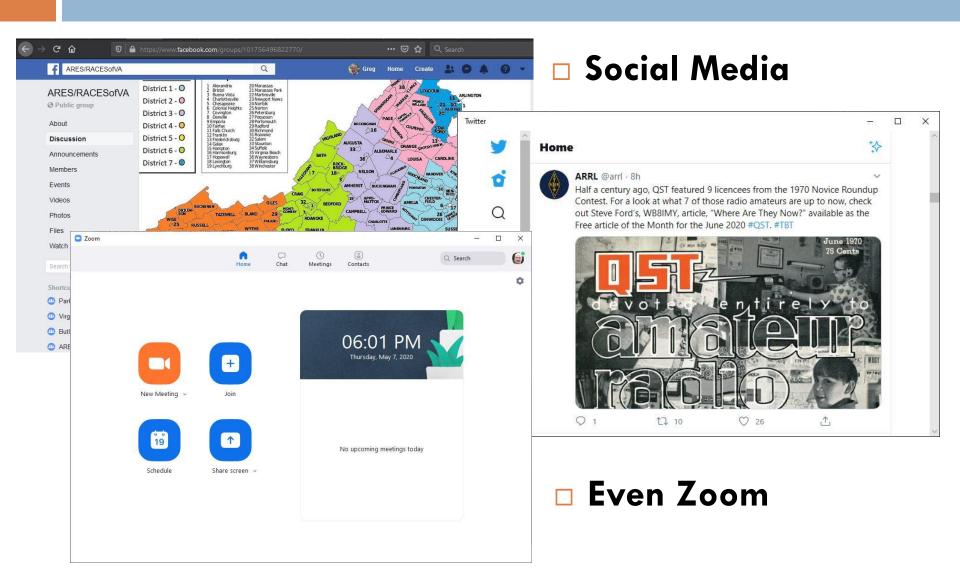








VHASS similar



Modern Challenges

- X POTS
- X Cellular telephones
- X Satellite telephones
- **X** LMRS
- X Trunked systems
- **X** WebEOC
- **X** VHASS
- X Social Media (and Zoom)

Some Solutions



■ Minimize potential points of failure

Stepping It Up a Notch

- ■Amateur Radio Tools
 - Voice

 - Other digital modes
 - **PSK**
 - Olivia
 - Many others.

The Right Tool for the Job

- VHF/UHF, repeaters, HF
- Voice best for tactical
- □ CW spectral efficiency
- Digital best for logistical
 - Beyond radiograms
 - Error correction or not
 - Synchronous/asynchronous
 - One-to-many
 - One-to-One.

Another Amateur Radio Tool



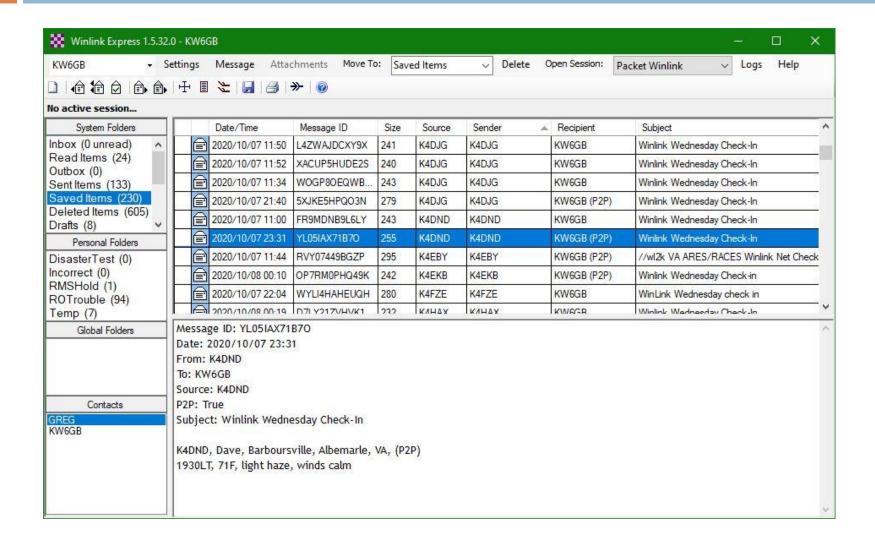
- ■NOT a silver bullet
- Numerous advantages

Winlink's BASIC Features

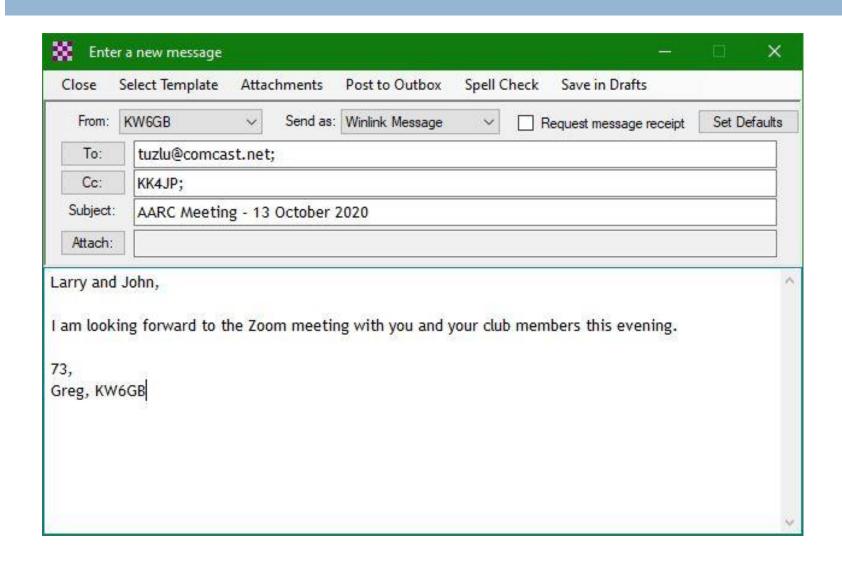
Winlink Features

- □ Familiar Interface
- □ Error-free
- Forms for served agencies
- □ Internet... or not
- Bi-directional with non-hams
- Let's look at these.

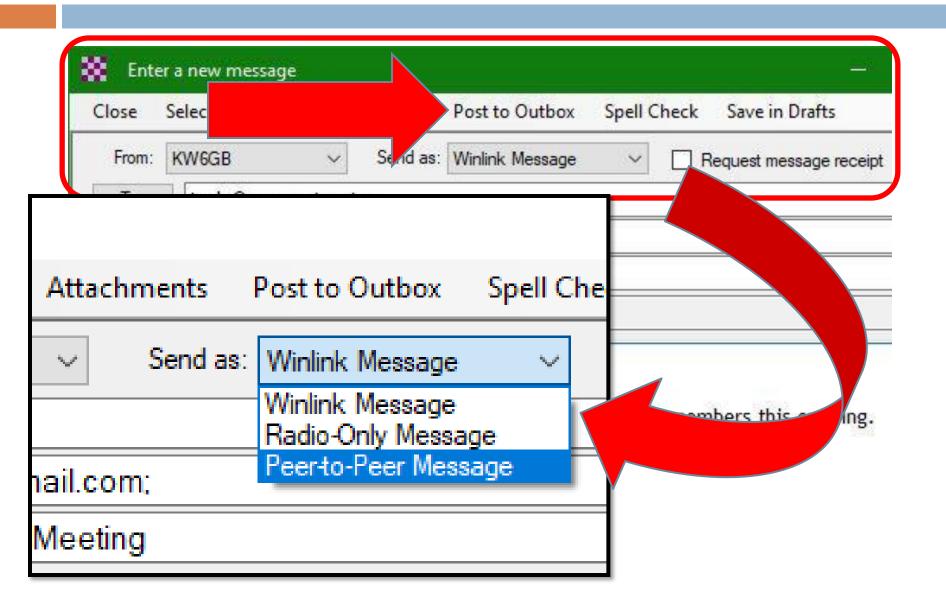
Winlink's Familiar Interface



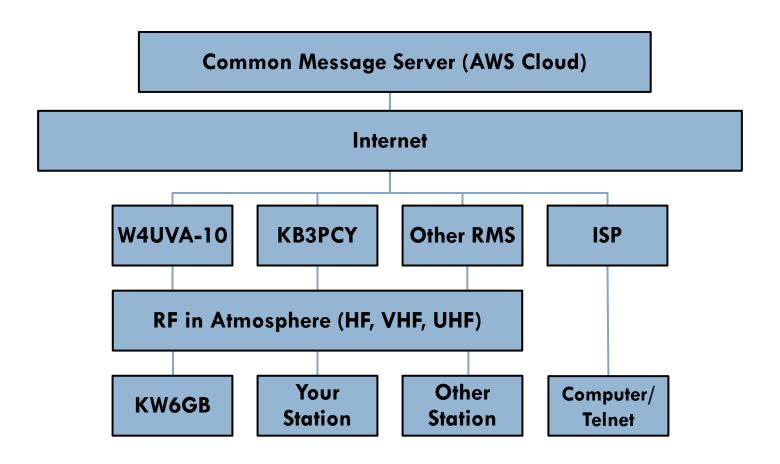
Winlink Message Creation



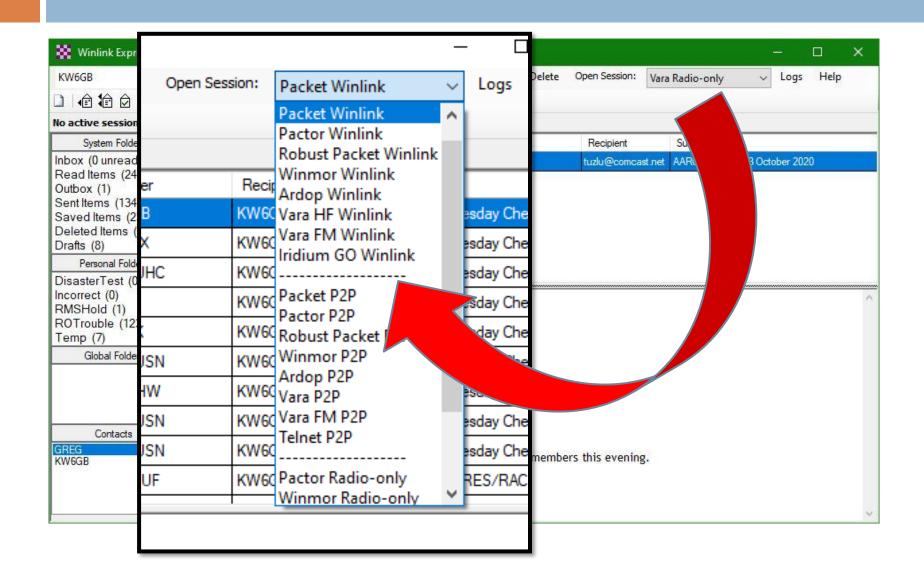
No "Send" Button?



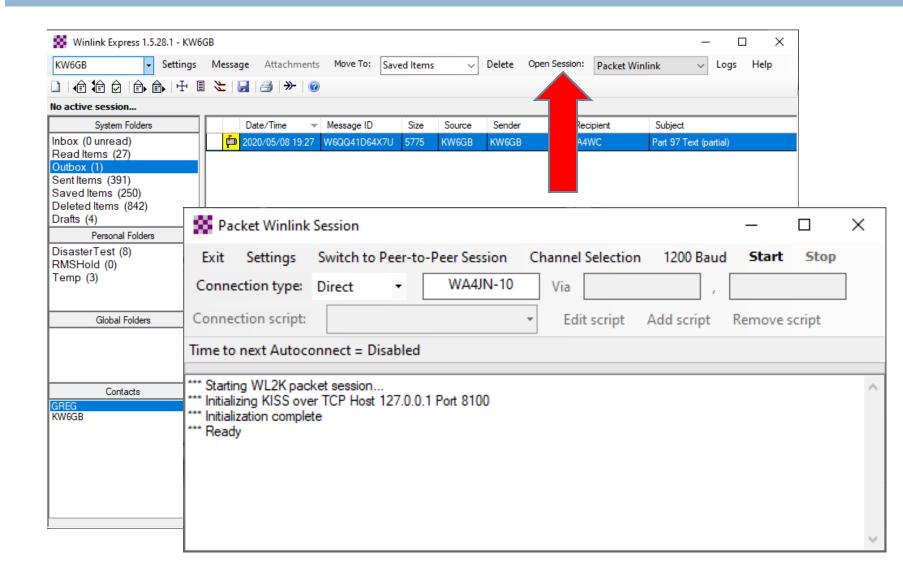
Winlink System Overview



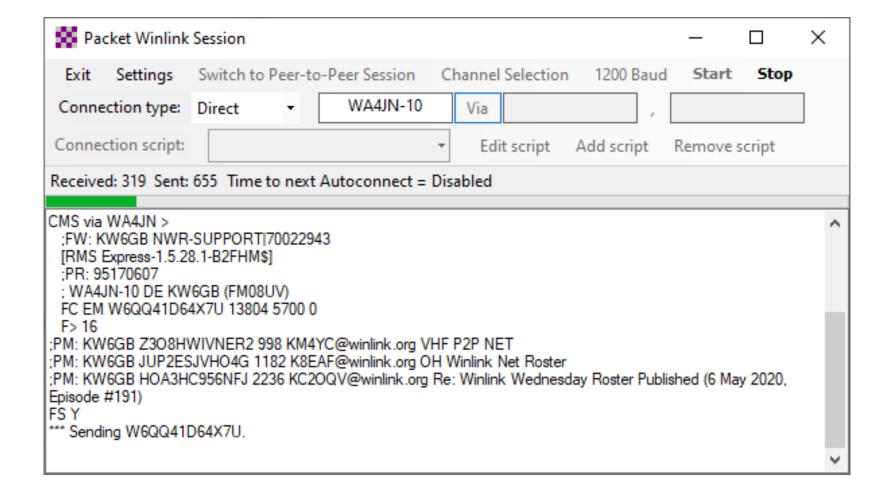
Choosing a Session Type



Starting a Session



Session in Progress



Error-Free

- □ Get it all, get it right
- Or not at all
- Interference, atmospheric, etc.

Winlink's BIG Advantages

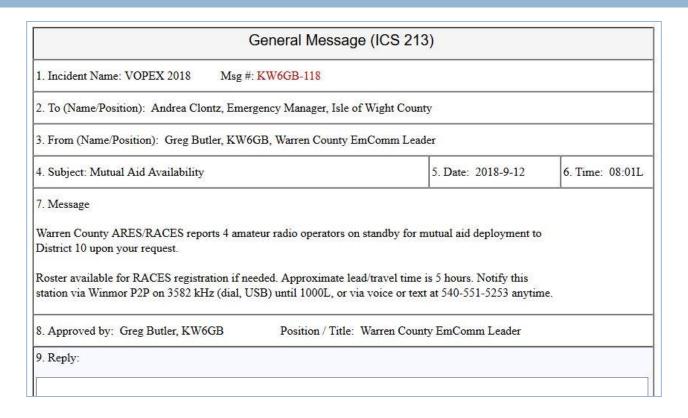
First Big Winlink Advantage

 Incident Name (Optional): SAMPLE INC 	ERAL MESSAGE (IC:		
2. To (Name and Position): WATCH OFFIC			
3. From (Name and Position): G. BUTLER.		ADED WADDEN COUNTY	500
	COMMUNICATIONS ONLI		
4. Subject: SITUATION STATUS #1		5. Date: 10/27/2017	6. Time 14:00L
7. Message:		10172207500	2 0.3 22 22 22
*** THIS IS ONLY A DRILL ***			
MAJOR FLOODING OCCURRING AT CON ROYAL. SECONDARY ROADS IN MMED SWIFTWATER RESCUES IN PROGRESS. PERSONS CURRENTLY IN SHELTERS: WARREN COUNTY STATION #1: 25 WARREN COUNTY STATION #6: 10	IATE AREA IMPASSABLE. AP		
NEXT REPORT AT 1600 UNLESS CONDI	TIONS REQUIRE SOONER. N	O REPLY NECESSARY.	
8. Approved by: Name: G. BUTLER 9. Reply:	Signature.	Pasition/Title: C0	Annia LEPEPE
10. Replied by: Name:	Position/Title:	Signature:	

- Attachments
- MS Word document
 - **□ 74 kB attachment**

- PDF document
 - □ 107 kB attachment.

Winlink Forms for Served Agencies



Winlink HTML attachment

■1.2 kB attachment (including message).

Second Big Winlink Advantage

- □ Internet... or not
- □ RMS Transfer
 - End user to gateway to Internet to gateway to end user (asynchronous)
- Peer-to-Peer
 - End user to end user (synchronous).

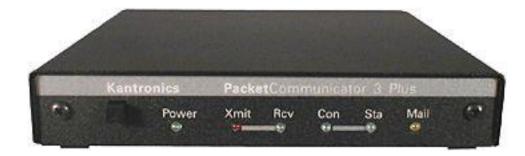
Third Big Winlink Advantage

- Bi-directional with non-hams
- No ham at destination? No problem.
 - VDEM when radio room unmanned
 - Governor's office
 - End user to gateway to Internet to end user (asynchronous)
 - Safe and well to out-of-state family
- No violation of Part 97.

Winlink: What Do I Need

Software/Hardware Requirements

- Winlink Express (free, mostly)
- Computer(Windows 10)
- Interface (Built-in, TNC, SignaLink, other)





Optional Hardware



- For maximum available speeds:
 - PACTOR modem
- **□** Alternate:
 - VARA ("Poor Man's PACTOR").

Configuration Variables

- Way too many to discuss tonight
- □ Google Groups:
 - "Winlink Programs Group"
 - "Winlink_For_EmComm"
- □ Other experienced users.

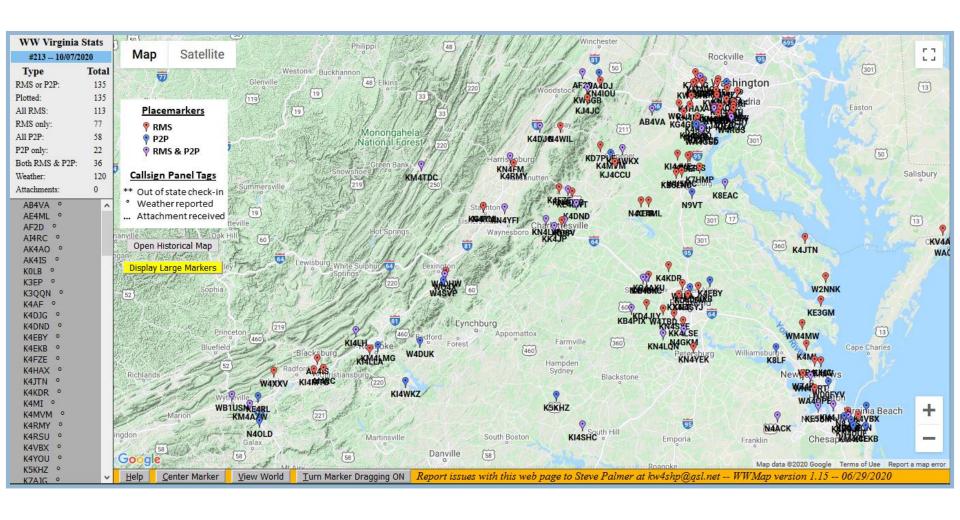
Now What?

Getting, Staying Competent

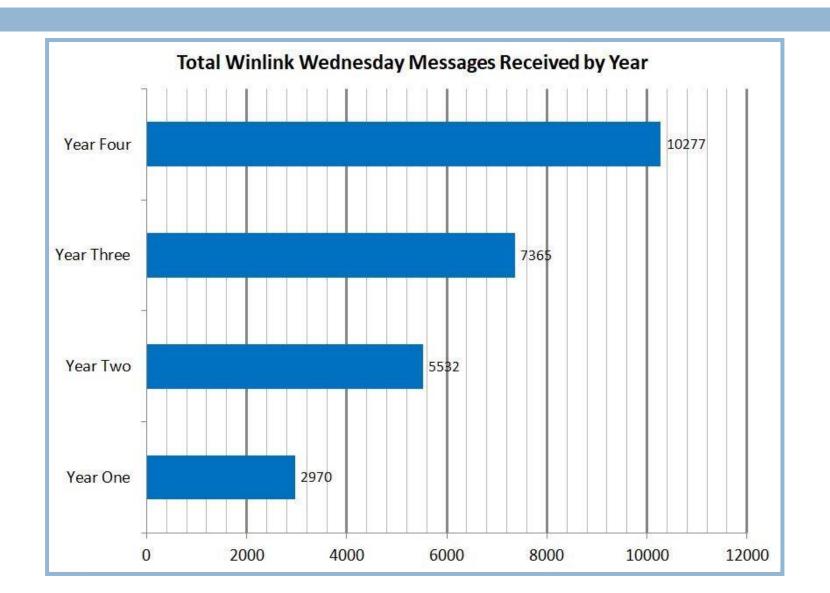
- Use Winlink on a regular basis
- Be an Elmer
- □ And...

Join Winlink Wednesday

Participant Map, 7 October 2020



Winlink Wednesday History



Questions?

https://winlinkwednesday.net



https://www.facebook.com/groups/VirginiaEmComm/



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