Beginning to bring closure to the WINLINK/RM-11831 debate: Acknowledging what has been proved

by Gordon Gibby KX4Z September 3, 2019

Reasonable people can disagree on the proper application of facts, but **getting the facts straight** is generally one of the more important items on the checklist of reaching consensus. Unfortunately, that has been difficult with all the claims, charges, and accusations flying around the RM-11831 discussion

I've learned a LOT in this discussion, some of it from Ron himself! Some good has come from this, in my view (Disclaimer: I am not a member of the Winlink Development Team though I'm a gateway sysop and friendly with them.). *Openness in amateur radio* is important, and a great deal more of that has been achieved. Following the rules is important, and *vastly* more of that has been achieved in an astonishing collaboration of foes toward that end.¹

Nevertheless, there still seem to be a lot of people who don't get the basic "facts" of this discussion, or are not aware of the recent developments. In order to figure out the facts, I completed multiple original-research efforts (all published to the FCC) to put **numbers** on things that people were arguing **from subjective viewpoints**. You should know that I ended up learning the history of Jean-Paul Roubelat F6FBB, the first developer of compressed, ARQ amateur radio file transfers (subsequently adopted by WINLINK and PAT)....**and that I have now written a free open-source reader application** (which requires a Dragon modem and a Raspberry Pi 3B), because <u>that was needed</u> to put an end to this argument that lasted 2 decades.....largely over 2 days of qualified programmer work. Folks, this is now a waste of time. *The facts are in*, for most of this. The rest is optimization, folks.

Therefore, I present the following table for your consideration to review what is now factually known (from my viewpoint). Similar information can be gathered together to dispel a ton of rumors about PACTOR, or WINMOR, or ARDOP. I was amazed at what had been documented and published, sitting there literally waiting to be used.

Sincerely, Gordon L. Gibby MD KX4Z

ISSUE	Study	Conclusion
Is winlink encrypted?	https://ecfsapi.fcc.gov/file/ 10410170249078/ FCCRM11831-4.pdf	NO. Because I demonstrated an uninvolved station capturing a message in a special case it only takes ONE such demonstration to disprove encryption.

1 In my opinion, the collaboration of persons opposed to WINLINK and the WINLINK Development Team through the distributed networked receiver-viewer is one of the brightest parts of recent ham radio, and all participants deserve sincere praise and appreciation.

Do winlink 97.221(c) stations cause large amounts of interference? In other words, WAS THERE A PROBLEM THAT THE ARRL NEEDED TO SOLVE?	https://ecfsapi.fcc.gov/file/ 10408063816674/ FCCRM11831-2.pdf	NO. I did a statistical study. The maximum possible interference (worst case) in a 14day sample was in the hundredths to thousandths of even 1 percent. This is a non-problem.
What was the level of hanky- panky being done via WINLINK? [undoubted some of which was out of bounds!!]	https://ecfsapi.fcc.gov/file/ 10723230403421/ IncidenceCalculations.pdf	It was approximately 1.1% and if the opponents had answered more of my questions, I could have gotten an exact figure. You can make of this what you will, good or bad reasonable people can view this in several lights but this is the number. It comes from usage BEFORE PEOPLE KNEW of the viewer. That is why it is so valuable.
Can winlink be effectively self-policed?	Original Research: https://ecfsapi.fcc.gov/file/ 10822196770221/ ReAnalysisOfWinlinkObjecti onableMessages.pdf	YES the rate of hanky-panky dropped by 90% in 3 months, and another 90% of that (2 orders of magnitude) after the 4th month, to only 1 objectionable item out of 15,000 transfers. Making WINLINK the cleanest part of all of amateur radio.
Do many hams REALLY want anything more than the winlink viewer?	Original research; https://ecfsapi.fcc.gov/file/ 1080509964054/ ExParteCommunicationAug5. pdf	NO once the Viewer was out, there were almost No Persons on QRZ who requested the ability to personally read any of it. I did this attempt at a study to determine the true interest beyond the vocal persons.
Is WINLINK really impossible to read?	Original software development: https://ecfsapi.fcc.gov/file/ 10830048730238/ FreeSoftwareToReadWINLIN K.pdf	NO the code to do so is now public knowledge and requires (for pactor) only a pactor modem and a raspberry pi. With suitable alterations, ARDOP and WINMOR can also be read. This was written by a very novice programmer (me!) and certainly could be improved. There is now a vast field of amateur radio research and development waiting to be accomplished, by people building on what I wrote. https://www.qsl.net/nf4rc/Tech/

	RaspberryPiWinlinkDecoder/