

All About Winlink Wednesday

By Greg Butler, KW6GB – 1 January 2019
(Revised 5 August 2020)

Description

The original Winlink Wednesday is a weekly amateur radio digital net in Virginia where check-ins are accomplished by using the Winlink (global email via amateur radio) system.

Purpose

The primary purpose of Winlink Wednesday is to encourage the regular use of the Winlink among amateur radio operators in Virginia by providing an opportunity to expand your skills with Winlink, and to practice them on a regular basis. My purpose is to keep users sharp so that, if and when a served agency calls on us, we can perform confidently and professionally. The primary purpose of Winlink Wednesday is to encourage the regular use of the Winlink among amateur radio operators in Virginia. Although aimed primarily at Virginia amateur radio operators, participants from outside of Virginia take part each week. Out-of-state check-ins are not counted in most of the detailed statistics, but are optionally displayed on the participant map generated each week. Operators from outside of Virginia are welcome to participate as long as they wish, but are encouraged to start a similar net in their own state to broaden the use of Winlink even further.

Regular practice in the use of Winlink is heartily encouraged, in all of its various modes currently available to the end user, as well as any modes that may be developed by the Winlink Development Team (WDT) or acquired by the amateur in the future. These include, but are not limited to, Packet, ARDOP, VARA, and PACTOR.

The Facebook group “Virginia EmComm” also provides a forum for assistance in station setup and technique as well as allowing for a free exchange of ideas. The website <http://winlinkwednesday.net/> includes a number of related documents and resources.

Participation

Check-ins may be submitted anytime between 0000 and 2359 (ET) each Wednesday. The use of Winlink Express client software is preferred, but alternative software packages are available, possibly with limited features. Messages may be sent by accessing any RMS station (Winlink gateway) that the participant can reach, either directly or via a digipeater or Node. These are referred to as “RMS Check-ins.” The message format for a “Standard Check-in” is as follows:

To: KW6GB

Subject: Winlink Wednesday Check-In

Message body:

call sign, first name, city or town, county, state (HF or VHF, etc.)

Message body example:

KM4DC, Don, Reston, Fairfax, VA (HF)

The format of the message body is important because it is copied and pasted directly into the roster, which is published on Thursdays (see “Net Results,” below), and is used to help generate the weekly participant map. Correct formatting also helps in tracking participants’ progress towards earning the Winlink Wednesday Century Club certificate, which recognizes 100 weeks of participation.

On the first Wednesday of each month, check-ins that include a brief weather snapshot on the second line of the message are requested, though not required.

Weather snapshot message body example:

K4YOU, Bob, Virginia Beach, VA, (HF)

0841L, Clear, Sunny, Calm Winds, 41°F

Weather snapshot hints: Do not include weather on the same line as check-in data. Do not include blank lines between check-in data and weather snapshot. Finally, PLEASE do NOT submit a METAR for a weather snapshot.

On the third Wednesday of each month, check-ins that use an attached, Winlink-native ICS-213 form are requested, though not required. See the next page for an ICS-213 check-in example.

ICS-213 check-in example:

General Message (ICS 213)			
Load ICS213 INITIAL Data		Form Instructions	
1. Incident Name: <input type="text" value="Winlink Wednesday"/>			
2. To (Name/Position): <input type="text" value="KW6GB, Net Control"/>			
3. From (Name/Position): <input type="text" value="N4ACK, Net Participant"/>			
4. Subject: <input type="text" value="Winlink Wednesday Check-In"/>		5. Date: <input type="text" value="2020-05-20"/>	6. Time: <input type="text" value="13:58L"/>
7. Message: <div style="border: 1px solid black; padding: 5px; min-height: 100px;"><p>N4ACK, Lyle, Windsor, Isle of Wight, VA (HF)</p></div>			
8. Approved by: <input type="text" value="L. Piner"/>		Position / Title: <input type="text" value="Net Participant"/>	
Save ICS213 INITIAL Data		Submit	Reset Form
			Ver 41.3

Complete, step-by-step instructions for the use of an ICS-213 for Winlink Wednesday check-in are available in a separate document available at:

http://winlinkwednesday.net/Winlink_Wednesday_ICS-213_Check-In.pdf

...or directly from Greg, KW6GB (kw6gb at arrl dot net).

Peer-to-Peer Sessions

Peer-to-Peer (P2P) sessions on HF are conducted during the net each week. These sessions allow practice for an “Internet down” scenario and the need to communicate beyond line-of-sight VHF/UHF constraints. The general schedule for the P2P sessions is as follows:

Morning session: 0730-0930L, ARDOP P2P, 3582 kHz (dial). (**Winmor use discontinued as of 5 August 2020.**)

Afternoon session: None.

Evening session: 1900-2130L, VARA P2P, 3582 kHz (dial). (**Changed from ARDOP P2P on 5 August 2020.**)

Occasionally, this schedule gets altered due to travel or other obligations. Any changes are noted in the weekly reminder distributed via Winlink to participants, on the “Virginia EmComm” Facebook page each Tuesday, and the Winlink Wednesday web page (<http://winlinkwednesday.net/>). Once the P2P session is active, it is announced within the Facebook reminder thread. To reduce congestion during the morning P2P session, we added several Alternate Net Control Stations (ANCS) in June 2020. See the weekly reminder for details regarding ANCS operators and frequencies.

The message format for these P2P Check-ins is the same as for RMS check-ins. When atmospheric conditions improve for intrastate communication, the afternoon session, typically on 40 meters, will be reinstated. With the Winlink Development Team's (WDT) announcement that Winmor is deprecated, Winmor P2P has been discontinued during Winlink Wednesday. As technologies evolve, different P2P session types may be used. Any changes will be noted in the weekly reminders.

Net Results

Each Thursday, several things take place to report the results of the previous day's net.

On Thursday morning, a brief message is distributed via Winlink to the current week's participants, acknowledging their check-ins.

All Virginia and out-of-state participants for the week are plotted on an interactive map, which is posted at <https://www.qsl.net/kw4shp/WinlinkWed/WWmap.html>, also linked at <http://winlinkwednesday.net/> and on the "Virginia EmComm" Facebook page.

Later that day, the weekly Net Report and Roster is created and posted as a PDF on the Winlink Wednesday website. That document includes notes and observations about the previous day's net and a complete roster of its participants. Roster entries are copied and pasted directly from each participant's check-in message. Any notes from net control are enclosed in square brackets, [like this]. The net report and roster for the current week can be found at: <http://winlinkwednesday.net/WWRoster.pdf>.

Once the net report and roster is posted to the Web, a second Winlink message is distributed, announcing that it is available. If you need a copy of an older net report and roster, contact me directly.

New participants also receive a "Welcome to Winlink Wednesday" message from KW6GB.

Statistics

The most commonly tracked and mentioned Winlink Wednesday statistics are "total messages," "total check-ins," and "total participants." A few notes about the tabulation of statistics are in order.

"Total messages" is the sum of all messages received at Net Control (in-state and out-of-state), plus the Net Control Station. Some stations send multiple check-in messages to test the various modes available to them (e.g., Packet, Winmor, ARDOP, VARA, VARA FM, PACTOR); others send messages using a single mode, but from various locations to which they might be deployed during an emergency. All stations are welcome to send multiple check-in messages each week.

For the sake of "total check-ins," each Virginia station is credited for a maximum of two check-ins per week: one for an RMS check-in, and one for a P2P check-in. Second and subsequent check-ins (RMS or P2P method) are not included. Out-of-state check-ins and check-ins not

leaving the sending station via RF (Telnet connections) are noted, but not counted, except in the total message tally.

“Total participants” is the number of unique Virginia stations participating. For example, a given week might result in 251 total messages received, consisting of 177 “total check-ins” from 148 “total participants.”

Also of interest is the “Winlink Wednesday Century Club.” A Winlink Wednesday Century Club certificate is issued to each station, regardless of location, that accumulates 100 weeks of participation in Winlink Wednesday. A list of the current Winlink Wednesday Century Club members can be found at <http://winlinkwednesday.net/centuryclub.html>. An interactive map showing progress towards Century Club status is here: <https://qsl.net/kw4shp/WinlinkWedHistory/WWhistorymap.html>. This map is generated from the easy-to-navigate spreadsheet at: <https://tinyurl.com/wwcc-tracking>. Many thanks go to Steve Palmer (KW4SHP) and Dan Mouer (WA4GSD) for their skilled handling of the data and transforming it into useful resources.

History

While living near the San Andreas Fault in southern California, I worked in a municipal Building and Safety Department, where my responsibilities included building code enforcement and emergency management. During my graduate studies in Emergency and Disaster Management, I became aware of the need for amateur radio to be part of my personal preparedness plan. In 2010, I rejoined the hobby that I had left 36 years earlier.

Knowing that my neighborhood might someday be impacted by a major earthquake, I explored options for transmitting detailed messages to someone outside of the “disaster zone.” Winlink fit the bill perfectly. Because there were no VHF RMS gateways within range of my station, I used Winlink exclusively on HF to reach distant RMS stations.

I retired in June 2014 and immediately moved to Virginia’s northern Shenandoah Valley, joining the local amateur radio emergency communications group that served my county. I found that a number of local hams were using Winlink. However, I noticed three interrelated difficulties. First, they were using it almost exclusively on VHF. Second, they weren’t using it with any regularity, so the steps of creating, posting, and sending messages within Winlink were easily forgotten. And third, the Shenandoah Valley is topographically isolated from the Virginia Department of Emergency Management (VDEM), in Richmond. These factors combined to make it nearly impossible to reliably use Winlink to pass emergency traffic in a disaster that compromised conventional, Internet-dependent communication channels. The capability to communicate with VDEM was also a priority for our county’s Deputy Emergency Coordinator.

In an effort to promote the regular use of Winlink among amateur radio operators in Virginia, I used Facebook to announce a one-time net to gauge interest, inviting hams to send a simply formatted message to me anytime during the day of Wednesday, 24 August 2016. Sixteen stations participated from around Virginia. Sufficiently encouraged by that result, Winlink Wednesday was born and became a weekly event, and has grown substantially. See:

<http://winlinkwednesday.net/WWgrowth.png>. A number of the original participants continue to participate regularly in Winlink Wednesday even today.

To prevent participation in Winlink Wednesday from becoming just a rote exercise, and to encourage the transmission of timely, useful information, I requested that check-ins on 5 October 2016 include a brief weather snapshot. That practice continues today on the first Wednesday of each month.

Also on 5 October 2016, the first Peer-to-Peer (P2P) session was held. I invited operators to check in during a Winmor P2P session, bypassing the need for Internet connectivity at any point in the communication circuit. Four stations took advantage of that opportunity. Peer-to-Peer sessions continue each week, using varied session types.

To further expand user capabilities, on 16 November 2016, I asked participants to check in using an attached, Winlink-native ICS-213 General Message form. The purpose was to encourage users to become comfortable using one of the most commonly used forms that they might need to transmit or receive for a served agency. This practice continues today on the third Wednesday of each month.

VDEM advertises that WebEOC, a Web-based application, is the primary means for local jurisdictions to contact Richmond officials with incident-related information, largely by submitting a Local Situation Report in the online portal. My local Deputy Emergency Coordinator asked me to find a way to submit a Situation Report that did not rely on the Internet. With assistance from the WDT, I designed an HTML form that mimics the format of the WebEOC form. In October 2017, the Virginia Local SITREP was incorporated into the Standard Template library in Winlink Express. Not long afterwards, the Virginia Resource Request was added through the same process. Both of these forms allow Virginia amateur radio operators to better serve their local emergency management officials.

Available for those who have the capabilities, a PACTOR P2P and VARA P2P Subnet also operates each Wednesday, allowing additional practice.

There are also several Winlink Wednesday Local Packet P2P Subnets around the Commonwealth. As of this writing, three of these subnets (Blue Ridge [Warren/Fauquier County areas], Central VA [Hanover County area], and Hampton Roads [Virginia Beach area]) have been operating for many weeks. Anyone who wishes to start another one in his or her area can contact me for startup tips. The existence of a half-dozen or more Local Packet P2P Subnets will enable the execution of a statewide, radio-only, Winlink-only disaster exercise (already in draft form). Such an exercise will demonstrate the ability to collect detailed local situation status reports from around Virginia and forward them to VDEM, even when all conventional means of communication are compromised. Ultimately, I envision regular exercises that include amateur radio operators (including the use of Winlink), coordinated with both local and state officials.

