

Suggested Standard Configuration for WinLink RMS Stations

What I hope to do

- Encourage the construction of local WinLink RMS stations that can be quickly put into portable use
- Provide RMS setup information
- Establish a suggested standard configuration for Portable WinLink RMS stations.
- Establish procedures for portable RMS operation

But first, some history!

N7CFO-10



Uglybox construction

- MDO plywood
- Ugly but durable and easy to make
- <u>http://www.n7cfo.com/amradio/proj</u>
 <u>ects/Uglybox.htm</u>

N7SS





N7SS improvements

- LED kaleidoscope mood lighting
- Surround sound stereo
- Aromatherapy generator
- Bubble machine
- Foot massager
- Automatic TASER and Mace deployment against intruders
- Optional disco mirror ball

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- Built as a portable
- Set up for DC power
- When I talked to the WinLink team they told me that portable station had never been used successfully during an emergency
- I set it up, tested it and packed it in a Pelican case

A few months later I unpacked it and it did not work!

- The problem was simple I had missed several WinLink updates and it would not connect
- The Solution? Put it back on the air as a fixed station and check it daily!

Problems since then...

- WIN10 updates have wiped out the configuration files twice and have disconnected the RMS from the network several times for no apparent reason
- WinLink updates have hung and crashed the program

So.....

It is apparent that you have to keep an eye on things

- Check the station daily
- Reboot at least weekly
- Keep track of Windows updates

Which brings us to the standard configuration project

So, how many of you have....

- A VHF or UHF radio gathering dust?
- A TNC that is not in use
- An unused laptop or netbook

-*or*-

All three!

Have you considered setting up a RMS?

If so, may I suggest configuring it as a portable installation?

- We need local RMS stations to support local emergency services
- If your EmComm group has backup power and solid internet connectivity you can take the pressure off wide area RMS stations
- Examples are the Mercer Island Radio Operators and SNOVARC
- It is not hard to build a RMS set up a WinLink station, test it and then load and configure RMS Packet

If you are starting from scratch, I recommend a radio with a data port and the TNC-X.

WinLink software puts minimal demands on a computer so most anything will do.

Suggested Standards

- This is a work in progress I'll hit the high points
- The American Red Cross requires that all field computer and radio installations be identical to maintain continuity. We should meet this standard.

- All equipment should run on both 12VDC and 110VAC power
- Maintain the RMS in daily use to ensure that it is fully operational
- Install RMS Express software so the station can also be used as a WinLink client station

Computer A desktop folder containing the following:

- -Screen shots of RMS Packet and RMS Express configuration screens
- –WinLink FAQ in PDF
- -Radio and TNC manuals in PDF
- -Copy of the Sysop's Amateur radio license

Software

- WinLink RMS Packet set up to auto load when the computer boots
- RMS Express
- RMS Simple Terminal
- Microsoft Office or Libre Office
- Web browser with Winlink webpage in bookmarks toolbar
- Windows Device Manager on Desktop

Radio

- Copy of Sysop's amateur radio license on the transceiver
- Engage the frequency lock if available.

Antennas

- Readily deployable gain antennas
- If possible, several antenna options should be available

Accessory Kit

- Station equipment checklist
- Optional equipment checklist
- 12VDC Power supply
- Feedline
- PL-259 connectors and adapters
- PVC tape
- Wireties

- SWR bridge
- GPS to get grid coordinates for RMS software setup
- DC power cords
- PowerPole block
- Microphone
- VOM
- USB Memory stick

Daily Maintenance

- Make the RMS available on 'public' status
- When new users connect invite them to use the RMS as they need to. Request that they notify you if they have any issues
- Check weekly for Operating System updates

Pre-Deployment

- Update if necessary:
 - -Computer Operating System
 - -RMS packet
 - -RMS Express
 - -RMS Express RMS station listing

- Check desktop references to ensure they are current
- Do a 'clean table layout' of all components and check them against the equipment list
- Check the optional equipment list for necessary items to support the issues at hand



Amateur Radio Digital Emergency Communications Station

Danger!! 1,000,000 Ohms!

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Packet TNI rifigure the TNC Type: KPC9612+ TNC Configur offgure a Por There an Port Port Frequenc on The Air Ba Power Optional Logi

Deployment

- Locate a secure site with internet connectivity and electricity
- Obtain permission to connect the RMS
- If using Windows 10 set the internet connection as metered to prevent automatic updates

- Change the Maidenhead Grid location in RMS Express
- Lock the computer

Maintenance

- Check the computer frequently to ensure it is connected to the internet
- Review the Sysop log frequently for inappropriate traffic
- Re-boot the computer daily

Questions?

Want to get involved? Please contact me Lynn n7cfo@n7cfo.com (425)641-5488