

Setting up Winlink on RF

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1 Sending messages with Winlink by RF

1.1 Introduction

Within the Winlink world, there are two things that are worth discussing:

1. CMS: Winlink Common Message Servers. The CMS is the Winlink email server that is situated in the Amazon Web Service (AWS) cloud. When you connect by Telnet, you are connecting directly to Common Message Servers.
2. RMS: Radio Mail Server. An RMS Gateway is a station that is connected via the internet to the Common Message Server. Client stations, like Outpost, can connect by RF to an RMS station.

When we think about local disasters, they usually include some element of an impact to the communications infrastructure. This implies that the internet, including telnet access to a Winlink CMS, might not be available. But what if there was a station “just over the hill” from us that was not impacted and we could reach them by radio? This is where Winlink RMS stations could come in.

As the definition above implies, an RMS station is a Winlink access point that you can get to by radio. It behaves like a BBS with similar commands and response. The big difference is that Winlink requires a Winlink account password.

Fortunately, you already have a Winlink account and password. If you also have a radio and TNC, the final thing you need is the station call and frequency of a local RMS station. Fortunately, Winlink provides a way to see who’s out there.

To find a local RMS station, go to <https://www.winlink.org/>, click on **Tools**, then **RMS List**, and then select **Packet** to narrow down the list to AX.25 Packet stations only.

Posted	Callsign	Grid Square	Center Frequency	Mode	Hours	QTH
212005Z	WH6DEW-10	BK29AQ	145.070 MHz	Packet 1200	00-23	Kona, HI, USA
211917Z	KH6KL-10	BK29JQ	145.090 MHz	Packet 1200	00-23	Hilo, Hawaii, Hawaii
212015Z	KH6SF-10	BK29KM	145.090 MHz	Packet 1200	00-23	Mountain View, HI, USA

Next, click on the column header **Grid Square** once or twice to sort the list in ascending order, and look for stations in the CM87xx to CM97xx range; these cover south bay area.

Posted	Callsign	Grid Square	Center Frequency	Mode	Hours	QTH
211909Z	W6TUW-10	CM97AA	144.910 MHz	Packet 1200	00-23	Santa Cruz, CA, USA
212052Z	K2RDX-10	CM97AH	145.630 MHz	Packet 1200	00-23	San Jose, CA, USA
212050Z	KE6AFE-10	CM97CC	145.630 MHz	Packet 1200	00-23	Santa Cruz, CA, USA

For the sake of this example, assume that I can reach an RMS station in San Jose on 145.630. The connect call is K2RDX-10.

OK... lets set this up!

1.2 Set up Outpost

1.2.1 Create a new Outpost Profile

1. From Outpost, **Setup > Profiles**. Then select **New...**
2. When prompted, enter a profile name, like "Winlink_RMS". Press **OK** when done.
3. This is now the currently selected profile.

1.2.2 Select a serial interface

4. From Outpost, **Setup > Interface**
5. Select whatever TNC Interface you use.
6. Verify or set the Com Port.
7. Press **OK** when done.

1.2.3 Set up the BBS

8. From Outpost, **Setup > BBS**
9. Press **New**.
10. Enter a friendly name: *Winlink_K2RDX*
11. Enter the Connect Name: *K2RDX-10*
12. Optionally enter a brief description. This is a good place to list the frequency of this BBS.
13. When done, Press **OK**.

Define a new BBS

Name | Prompts | Commands | Init Commands | Retrieving | Path

BBS Name

Friendly Name: Winlink_K2RDX

Connect Name: K2RDX-10

Description: Winlink RMS Station, San Jose. 145.630

BBS Type

Let Outpost determine the BBS and set up the prompts

User defines the BBS prompts

Non-identifying BBSs

AA4RE BBS

AA4RE BBS with Tactical Call Customization

TNC Name

Set/Get TNC

New

Copy

Delete

OK Apply Cancel

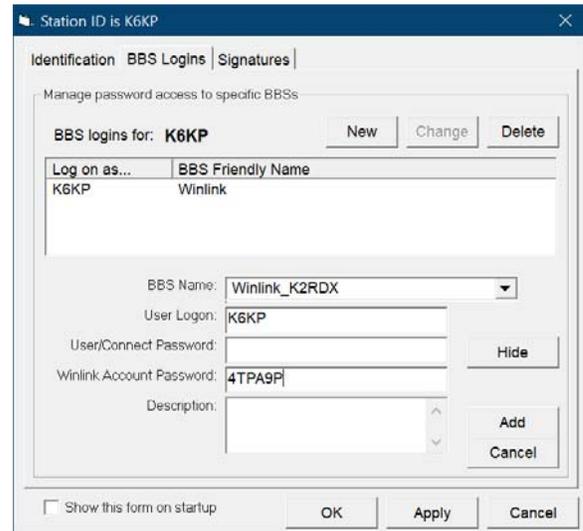
1.2.4 Set up your Station ID

14. From Outpost, **Setup > Station ID**

15. Set the call sign for which you have a Winlink Account.
16. Press **Apply**.

1.2.5 Set up your BBS login

1. From Outpost, **Setup > Station ID**.
2. Select the **BBS Logins** tab.
3. Press **New**.
4. From the **BBS Name** dropdown, select the BBS name that you just configured above.
5. Because you are NOT using Telnet, leave the **User/Connect Password** blank.
6. In the **Winlink Account Password** field, enter your Winlink password. The form now looks like this (press **Show/Hide** to see the password).
7. Press **OK** to save.



1.3 Sending a test message... to yourself (round-trip)

ACTIVITY

1. Create a test message addressed to yourself. You can make this as simple as you want, as long as all fields are filled in.
 - a. From Outpost, press **New**
 - b. Note that the **BBS:** and **From:** fields are automatically filled in.
 - c. In the **To:** field, enter your call sign.
 - d. In the **Subject:** field, add a subject, such as "Round trip message". Add this after the Message ID.
 - e. In the **Message Body** field, enter a brief text message.
 - f. Press the Send button when done.
2. Press Send/Receive to send your message.
3. If it was not retrieved during this session, press Send/Receive again.
4. Verify your message is received.
5. Similar to the messages sent using Telnet, feel free to try a variety of messages.

