A decorative background featuring a network diagram with nodes and connecting lines. The nodes are represented by circles of varying sizes and colors (gray, blue, and white with a blue outline). The lines are thin and gray, creating a complex web-like structure. The diagram is positioned in the top-left and bottom-right corners of the slide.

PiGate

WinLink2000

Emergency Email

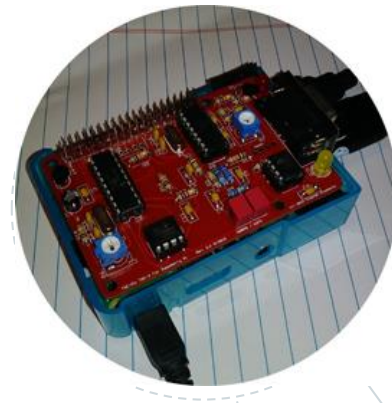
Gateway

Hello!

Ian Smith - VA7IAN

This is a
PROJECT IN PROGRESS

You can contact me at:
va7ian@gmail.com or
va7ian@winlink.org





What's Winlink

What software can you use

Walkthrough of Winlink Express

Into to pigate

Hardware

Software

Pactor Modem

How to install PiGate Software

How to configure it

How to send mail



Why I'm working on a PiGate

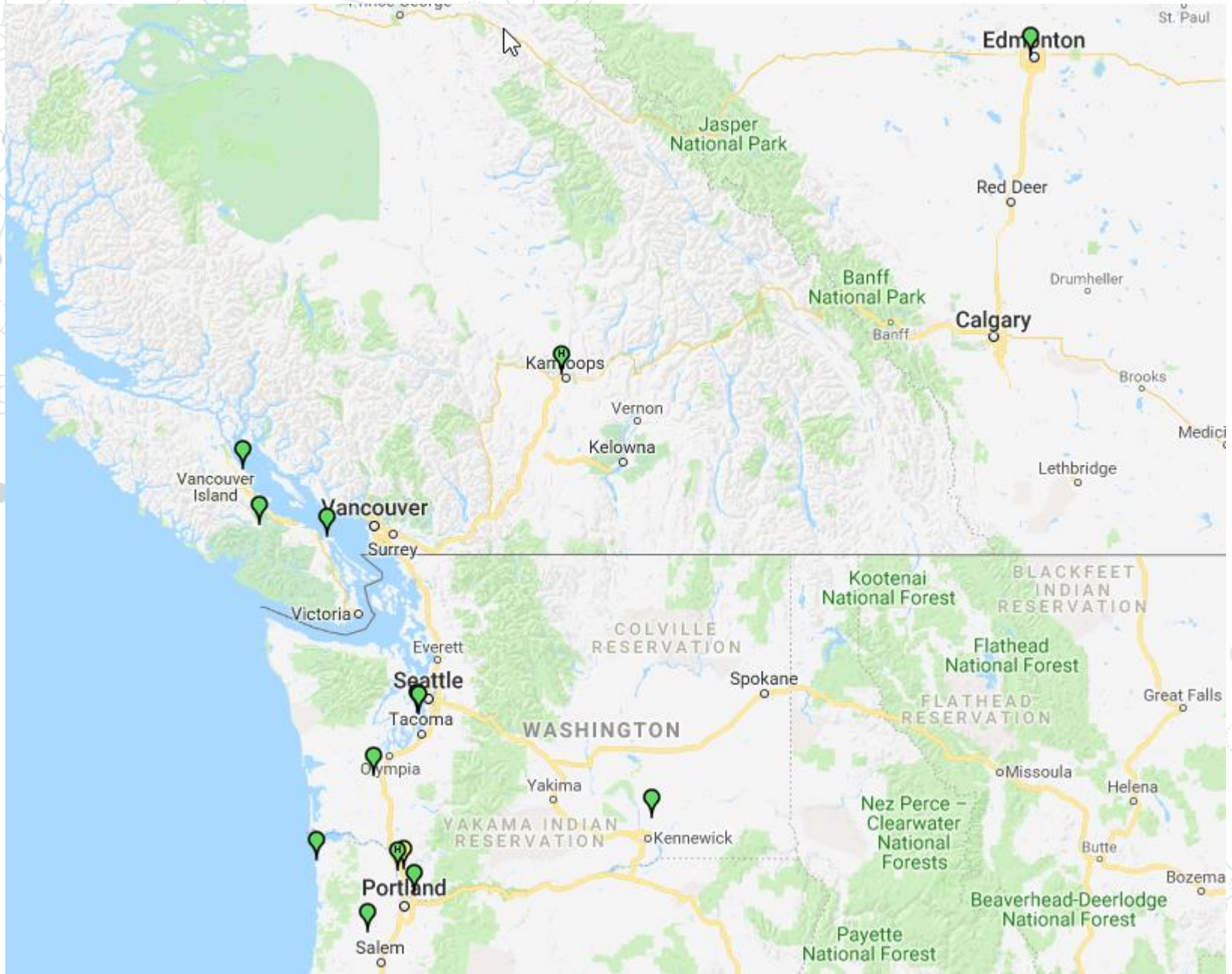
NSEM plans to use winlink to send email via radio if the internet is not available

Some users find the software complicated and difficult

Winlink.org

Wordwide network of gateways





Edmonton

Jasper National Park

Red Deer

Banff National Park

Calgary

Kamloops

Vernon

Kelowna

Vancouver Island

Vancouver

Surrey

Victoria

Everett

Seattle

Tacoma

Olympia

Portland

Salem

COLVILLE RESERVATION

WASHINGTON

YAKAMA INDIAN RESERVATION

Kennewick

Spokane

Kootenai National Forest

BLACKFEET INDIAN RESERVATION

Flathead National Forest

FLATHEAD RESERVATION

Nez Perce - Clearwater National Forests

Payette National Forest

Beaverhead-Deerlodge National Forest

Great Falls

Helena

Butte

Bozema

Brooks

Lethbridge

Medicine Hat

Drumheller

St. Paul



Software options

<https://www.winlink.org/ClientSoftware>

Winlink2000 (RMS Express)

Airmail – Good for debugging

Pactor

Outpost

Pat

Paclink-Unix

These screenshots have errors in the details.

Winlink Express 1.5.12.0 - VA7IAN

VA7IAN Settings Message Attachments Move To: Saved Items Delete Open Session: Pactor Radio-only Logs Help

No active session...

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
--	-----------	------------	------	--------	--------	-----------	---------

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (1)
- Sent Items (0)
- Saved Items (0)
- Deleted Items (0)
- Drafts (0)

Personal Folders

Global Folders

Contacts

Call Signs

My Callsign: My Password:

(Case sensitive)

 Show passwordCallsign suffix (optional): (Used for country code)Password recovery e-mail:

(Non-Winlink e-mail address where lost password will be sent when requested)

Auxiliary Callsigns and Tactical Addresses

My Grid Square: Winlink Express registration key: Path to propagation forecast program:

Service Codes

(Use PUBLIC for ham call signs. Separate multiple service codes by spaces.)

If you change service codes, you must update the list of channels.

Contact Information (Optional)

Name: Street address 1: Street address 2: City: State/Province: Country: Postal code: Web Site URL (optional): Phone number: Non-Winlink e-mail:

Additional information (optional):

Recalculate HF path quality if SFI changes more than: Keep logs for weeks. Keep deleted messages for days.

- Display list of pending incoming messages prior to download
- Warn about connections to stations holding messages
- Allow diagnostic information to be sent to the Winlink Development Team
- Automatically install field-test (beta) versions of Winlink Express



No active session.

System Folders

- Inbox (0 unread)
- Read Items (0)
- Outbox (1)
- Sent Items (0)
- Saved Items (0)
- Deleted Items (0)
- Drafts (0)

Personal Folders

-
-
-
-
-

Global Folders

-
-
-
-

Contacts

- New Message...
- Reply...
- Reply to All...
- Forward...
- Forward without change...
- Acknowledge receipt...
- Save message as...
- Edit...
- Templates...
- Template settings...
- Set favorite templates...
- HTML Forms
- Generate ICS-309 Communication Log
- Export messages
- Import messages
- Archive messages

Size	Source	Sender
------	--------	--------



Enter a new message

Close Select Template Attachments Post to Outbox Spell Check Save in Drafts

From: VA7IAN

Send as: Winlink Message

Request read receipt

Set Defaults

- Winlink Message
- Radio-Only Message
- Peerto-Peer Message

To:

Cc:

Subject:

Attach:





No active session...

System Folders
Inbox (0 unread)
Read Items (0)
Outbox (1)
Sent Items (0)
Saved Items (0)
Deleted Items (0)
Drafts (0)
Personal Folders
Global Folders
Contacts

Date/Time	Message ID	Size	Source	Sender	Subject

- Pactor Radio-only
- Robust Packet Winlink
- Winmor Winlink
- Ardop Winlink
- Vara Winlink
- Iridium GO Winlink
-
- Packet P2P
- Pactor P2P
- Robust Packet P2P
- Winmor P2P
- Ardop P2P
- Vara P2P
- Telnet P2P
-
- Pactor Radio-only
- Winmor Radio-only
- Telnet Radio-only
-
- Telnet Post Office





 Pactor Radio-only Session VA7IAN

Exit Settings **Pactor Radio-only** Channel Selection Forecast Best chan. Next chan. **Start** Stop Abort

VE7GN Center Freq. (kHz): 0.000 Dial Freq. (kHz): 0.000 Bearing: Quality:


Favorites: Select Add to favorites Remove from favorites

In: 0 Out: 0 Initialization Failed

```
*** Starting Winlink Pactor session.
*** Initializing the PTC-II TNC, Pactor 3, Port COM10, 57600 baud.
WARNING: There is a problem with the Pactor TNC or serial port
Could not recover the SCS controller - try recycling power.
*** No radio has been selected.
*** Ready
*** Radio-only session
WARNING: There is a problem with the Pactor TNC or serial port
Could not recover the SCS controller - try recycling power.
```





 Pactor Radio-only Session VA7IAN

Exit Settings Pactor Radio-only Channel Selection Forecast Best chan. Next chan. **Start** Stop Abort

VE7GN Center Freq. (kHz): 0.000 Dial Freq. (kHz): 0.000 Bearing: Quality:

Favorites: Select Add to favorites Remove from favorites

In: 0 Out: 0 Initialization Failed

```
*** Starting Winlink Pactor session.
*** Initializing the PTC-II TNC, Pactor 3, Port COM10, 57600 baud.
WARNING: There is a problem with the Pactor TNC or serial port
Could not recover the SCS controller - try recycling power.
*** No radio has been selected.
*** Ready
*** Radio-only session
WARNING: There is a problem with the Pactor TNC or serial port
Could not recover the SCS controller - try recycling power.
```



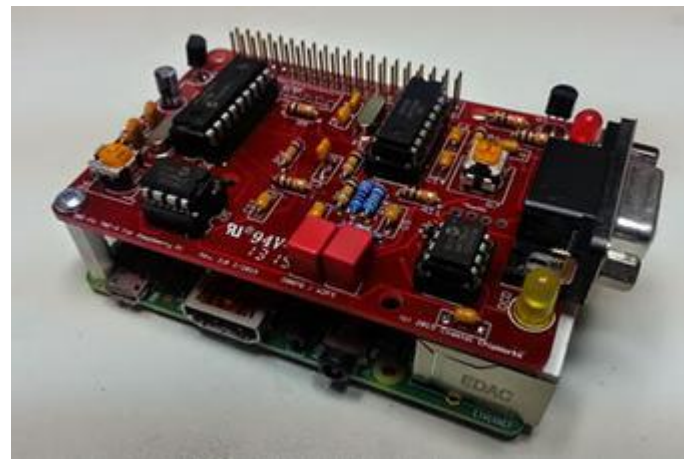
PiGate

Raspberry Pi mini-computer



Designed by
Mark Griffith, KD0QYN
Union, Missouri USA
(South of St. Louis)

www.pigate.net



Coastal Chipworks TNC-Pi add-on board

Pi 3 Model B+

\$60 Canadian



Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz
1GB LPDDR2 SDRAM
2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2, BLE
Gigabit Ethernet over USB 2.0 (maximum throughput 300 Mbps)
Extended 40-pin GPIO header
Full-size HDMI
4 USB 2.0 ports
CSI camera port for connecting a Raspberry Pi camera
DSI display port for connecting a Raspberry Pi touchscreen display
4-pole stereo output and composite video port
Micro SD port for loading your operating system and storing data
5V/2.5A DC power input



Micro SD memory

8Gb is plenty, have multiple.
Card can be corrupted is you lose
power while writing.
Easy to swap and be up and
running.



Projects for Pi

Linux desktop

Kodi / OSMC

Gaming

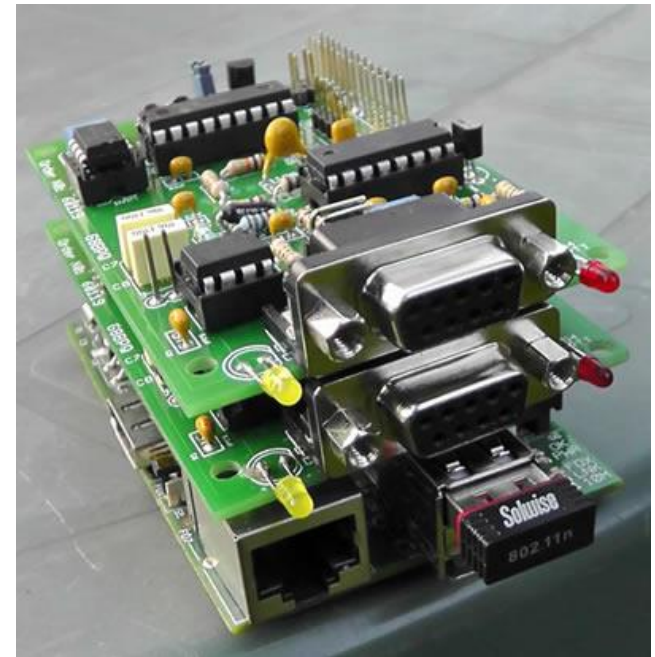
Drone controls

TNC-Pi TNC-X for Raspberry Pi

© <http://tnc-x.com/TNCPi.htm>

- © \$40 USD Kit form
- © \$65 USD Built and tested

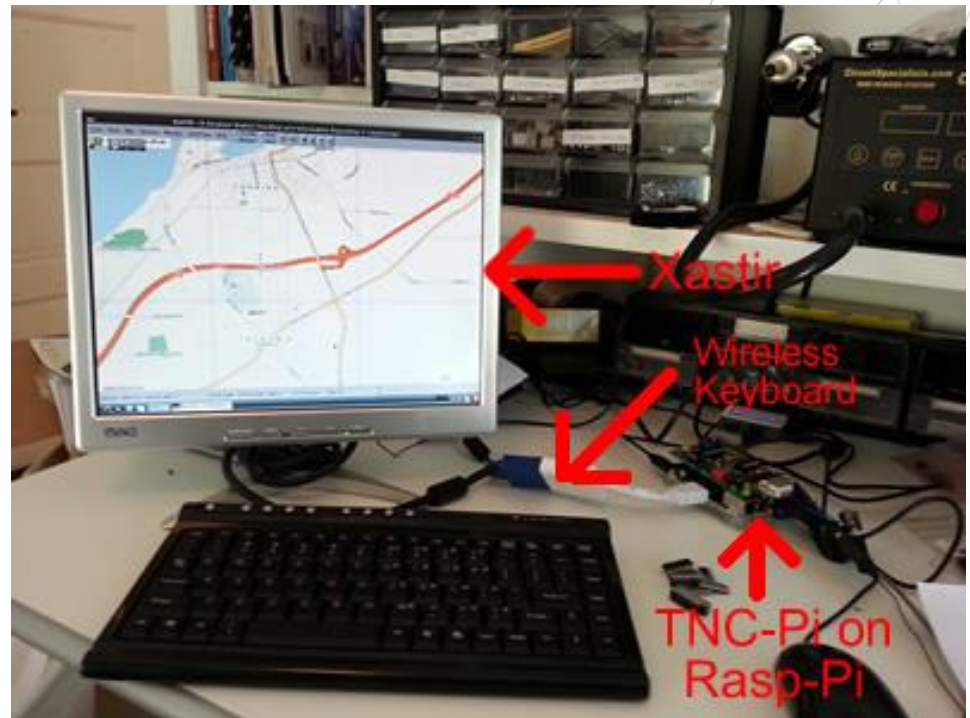
Imagine running a pair of TNC-Pi's with a single Raspberry Pi to create a dual frequency digipeater. G8BPQ has created a new version of his venerable BPQ multi-port packet program that will support this



TNC-Pi

APRS program Xastir running on Pi driving a TNC-Pi via serial connection.

Most features of D700/AVMAP for ¼ \$\$



PiGate

Design Goals

Portable

Low Power Requirement

Easy Setup

Easy to replicate

Intuitive interface

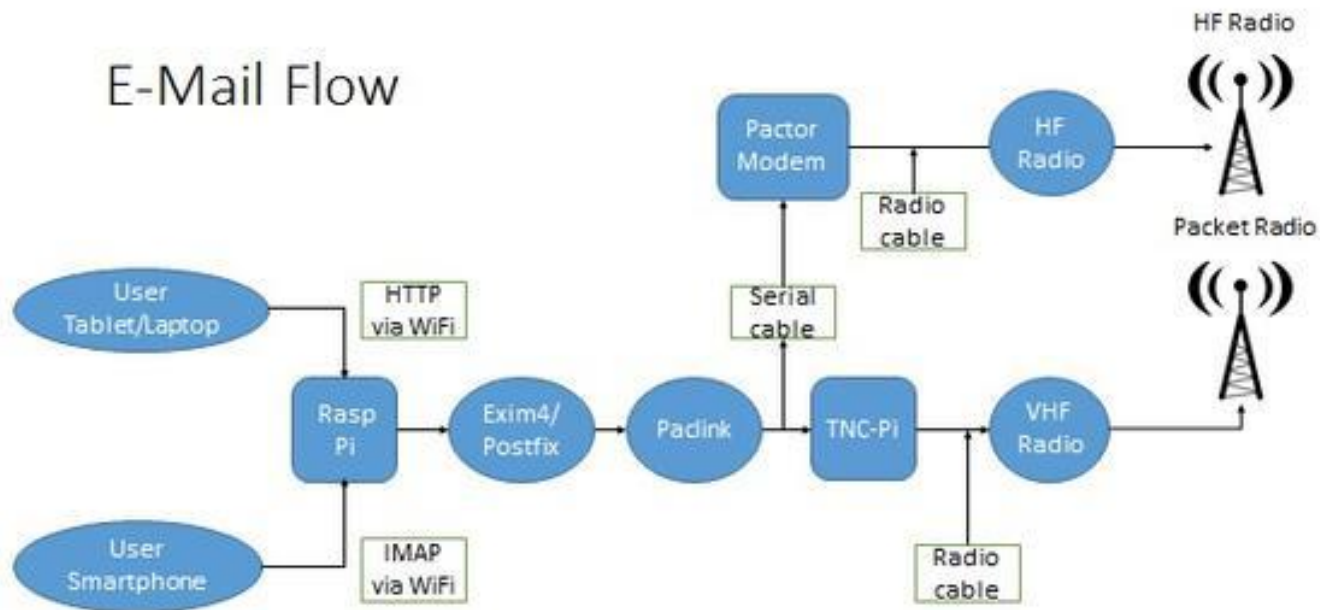
Existing Equipment

Reliable

Cheap

PiGate

Email Flow



Attach a GPS for location and Clock



Two connection options

Pactor Modem

USB or serial
connection between
PiGate and HF radio.

TNC-PI

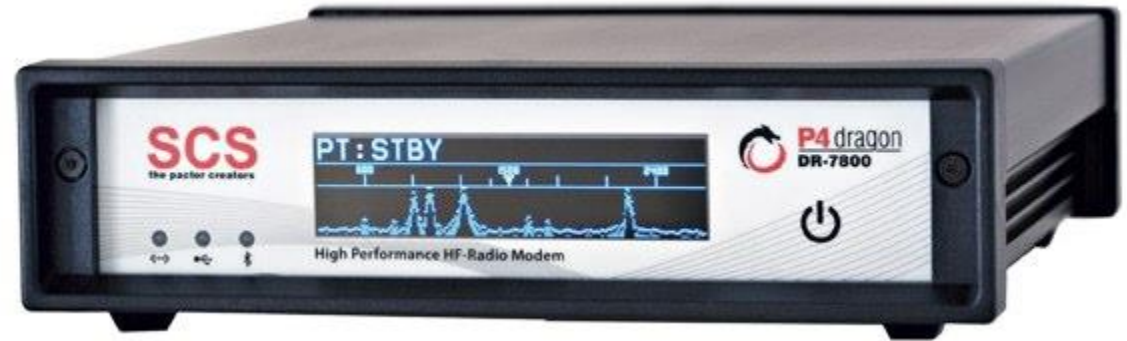
Serial cable to VHF
Radio
Packet Radio



The Pigate Software

- ◎ Exim4 – Linux Message Transfer Agent
University of Cambridge
- ◎ Postfix – Alternative to Sendmail
Wietse Venema
- ◎ Paclink – Streamlined Radio Email Client
B2F message transfer protocol

The SCS Pactor Modem



⦿ Expensive

⦿ Efficient – Takes processing load from PC

⦿ Pactor 2, 3, 4 Proprietary protocols

P2-1200bps, P3-5200bps

P4 – 10,500/5500bps (PMC/uncompressed)

2400 Hz bandwidth

Packet RMS over VHF

The PiGate RMS device uses the same hardware platform as the PiGate, except a display is necessary to connect to a WiFi hot spot for Internet access.

The major difference is in the software which uses John Wisemann's excellent BPQ32 software that has been in use for many years by hams all over the world.

Baofeng HT cable designs on site
Hack a hand mic

Setting up a PiGate

- ⦿ Read the documentation
- ⦿ Gather the hardware
- ⦿ Assemble any kits
- ⦿ Purchase or build the cables
- ⦿ Install the PiGate disk image
- ⦿ Downloads from PiGate.net

Choose the correct image for your Pi

Return here often to check for patches
and new software versions.

[Download the PiGate PowerPoint presentation](#)

[Download the PiGate documentation](#)

[Download the nifty case for the PiGate](#)

[Download the PiGate Pi 3 software image V1.4](#)

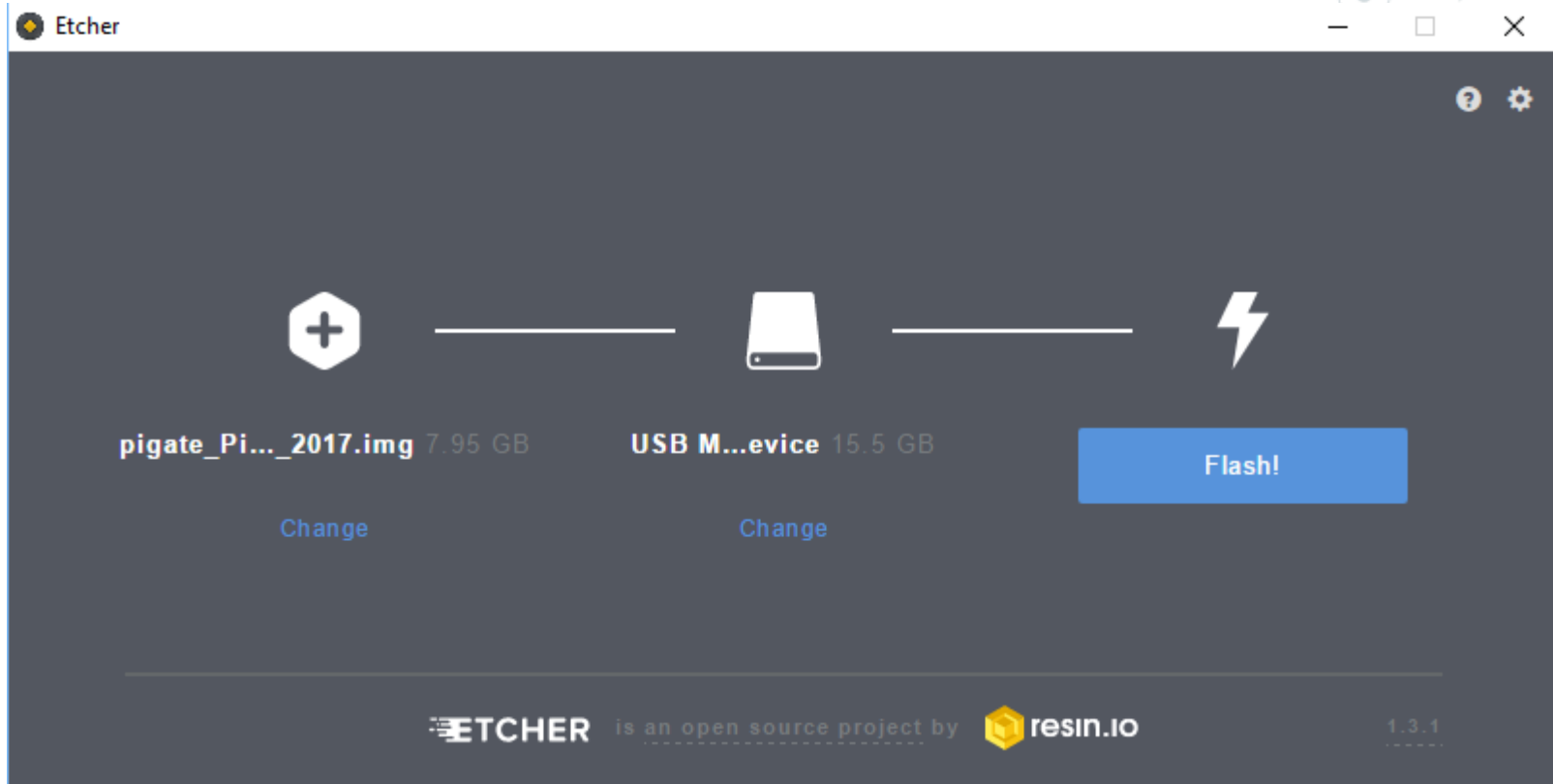
[Download the PiGate Pi B+ and 2 image V1.4](#)

[Download the Version 1.4 Release Notes](#)

Version 1.4 latest release.

**NOTE: These images WILL NOT work on
a Raspberry Pi3 B+ Stay tuned.**

Etcher or Win32DiskImager





If you mess up, Start over.

- ⦿ Power up the Pi.
- ⦿ Give it 30 seconds to boot
- ⦿ Connect to WiFi network
“PIGATE”

http://10.10.10.10/login.php

PiGate

192.168.1.68/login.php

HP Opsware SysAdmin Personal Bookmarks Weather and Climate Ham Radio DRUDGE REPORT YouTube Bookmarks Menu | Bill Whittle Truth Revolt

PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

Administrator Login

Enter the password for the **admin** user

Password:

Login



PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

Fri Nov 18 16:17:00 CST 2011 <<<< CHECK THE SYSTEM TIME Version 1.3.5

MAIN MENU

- [E-Mail Application](#)
- [Start/Stop AX25 Service](#) -- Currently **Disabled**
- [Poll RMS Station](#) ----- Last poll **Successful** to
- [Change Polling Interval](#) --- Currently **Disabled**
- [Request E-Mail Documents](#)
- [System Maintenance](#)
- [Online Documents](#)
- [Shut down the PiGate](#)

This is the initial menu. Notice nothing is enabled



No polling station is selected


PiGate

192.168.1.68/admin.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

Fri Nov 18 16:17:00 CST 2011 <<<< CHECK THE SYSTEM TIME Version 1.3.5

MAIN MENU


- [E-Mail Application](#)
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- [Poll RMS Station](#) ----- Last poll **Successful** to
- [Change Polling Interval](#) --- Currently **Disabled**
- [Request E-Mail Documents](#)
- [System Maintenance](#) ← **Select the System Maintenance Menu**
- [Online Documents](#)
- [Shut down the PiGate](#)

PiGate

192.168.1.69/system.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

System Maintenance Menu

- [Return to the Home page](#)
- [System Setup Menu](#) ← Select the System Setup Menu
- [Edit the list of RMS stations](#)
- [Set Default WL2K RMS station](#)
- [Set a Digipeater station](#)
- [Add a new PiGate e-mail user](#)
- [Delete a PiGate e-mail user](#)
- [View Transfer Logs](#)


PiGate

192.168.1.69/system_setup.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

System Setup Menu

- [Return to the System Maintenance page](#)
- [Set Default WL2K Callsign](#)
- [Set the PiGate Clock](#)
- [Set the PiGate Regional Timezone](#)
- [Set the PiGate Timezone](#)
- [Set the PiGate Location](#)
- [Change the PiGate admin user password](#)
- [Change the PiGate admin user e-mail password](#)
- [Change the PiGate WiFi SSID and password](#)


First, setup your Winlink2000 call sign and password

PiGate

192.168.1.69/set_wl2k_call.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

MENU

- [Return to the Home page](#)
- [Return to System Setup](#)

Enter the default callsign and password to connect to the WinLink200 system
You must already have a WinLink2000 system account
DO NOT leave either of these entries blank

Callsgin:

Password:


Enter your Winlink2000 call sign and password. DO NOT do this more than once. You must get it right the first time. Press "Submit".

PiGate

192.168.1.68/set_wl2k_call2.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

MENU

- [Return to the Home page](#)
- [System Maintenance](#) ← Return here when done

All changes should show "Success"
If not, copy a new image to the SD card and try again.


Adding kd0qyn to admins file...**Success**
Adding 'kd0qyn' with [redacted] as a new system user...**Success**
Adding 'kd0qyn' with [redacted] as a new WL2K e-mail user...**Success**
Changing 'NOCALL' to 'KD0QYN' in Squirrelmail kd0qyn.prefs file...**Success**
Changing 'NOCALL' to 'KD0QYN' in the WL2K config file...**Success**
Changing 'NOPASSWORD' to [redacted] in the WL2K config file...**Success**
Changing 'NOCALL' to 'KD0QYN' in the AX25 axports file...**Success**
Changing 'NOCALL' to 'KD0QYN' in the AX25 config file...**Success**

PiGate

192.168.1.69/system.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service


System Maintenance Menu

- [Return to the Home page](#)
- [System Setup Menu](#) ← Select the System Setup Menu again
- [Edit the list of RMS stations](#)
- [Set Default WL2K RMS station](#)
- [Set a Digipeater station](#)
- [Add a new PiGate e-mail user](#)
- [Delete a PiGate e-mail user](#)
- [View Transfer Logs](#)

PiGate

192.168.1.69/system_setup.php

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PiGate Emergency E-Mail Server

Amateur Radio Emergency Service

System Setup Menu


- [Return to the System Maintenance page](#)
- [Set Default WL2K Callsign](#)
- [Set the PiGate Clock](#) ← Next set the system clock
- [Set the PiGate Regional Timezone](#)
- [Set the PiGate Timezone](#)
- [Set the PiGate Location](#)
- [Change the PiGate admin user password](#)
- [Change the PiGate admin user e-mail password](#)
- [Change the PiGate WiFi SSID and password](#)

PiGate

192.168.1.68/set_system_clock.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

Set System Clock Menu

- [Return to the Home page](#)
- [Return to System Setup](#)

The current system clock is **Fri Nov 18 16:39:32 CST 2011**

Enter the correct time information to set the system clock

Hour:

Minute:

Day:

Month:

Year:

If a GPS device is attached to the PiGate and it was able to obtain a time fix, the system clock time will be already set

The time zone may be incorrect but that will be changed in the next step

If the time is incorrect you'll have to set it manually (In this case the clock is wrong as shown above)

PiGate x +

192.168.1.68/set_system_clock.php

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Amateur Radio Emergency Service

Set System Clock Menu

- [Return to the Home page](#)
- [Return to System Setup](#)

The current system clock is **Fri Nov 18 16:39:32 CST 2011**

Enter the correct time information to set the system clock

Hour: Enter the hour as two digits using 24 hour or military time (i.e. 16 for 4PM)

Minute: Enter the minutes as two digits

Day: Enter the day as two digits, such as "01" for the first day of the month

Month: Enter the month as two digits, such as "01" for January, "09" for September

Year: Enter the year as four digits

 Then press "Change"

PiGate x + 192.168.1.68/set_system_clock.php reate video from powerpoint →

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Amateur Radio Emergency Service

Set System Clock Menu

- [Return to the Home page](#)
- [Return to System Setup](#)

The current system clock is **Fri Nov 18 16:39:32 CST 2011**

Enter the correct time information to set the system clock

Hour:	<input type="text" value="16"/>
Minute:	<input type="text" value="55"/>
Day:	<input type="text" value="10"/>
Month:	<input type="text" value="02"/>
Year:	<input type="text" value="2017"/>

Here is an example of setting the clock correctly for the 10th of February at 55 minutes after 4PM


PiGate

192.168.1.68/set_system_clock2.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

MENU

- [Return to the Home page](#)
- [System Maintenance](#)

The system clock has been set to **Fri Feb 10 16:55:00 CST 2017**

The confirmation page will show the clock correctly set

You can change the system clock as many times as you like. If no GPS device is attached, or you have not added a RTC (Real Time Clock), you will need to do this each time you startup the PiGate.

Return to the System Maintenance Menu when done.


PiGate

192.168.1.69/system.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

System Maintenance Menu


- [Return to the Home page](#)
- [System Setup Menu](#) ← Select the System Setup Menu again
- [Edit the list of RMS stations](#)
- [Set Default WL2K RMS station](#)
- [Set a Digipeater station](#)
- [Add a new PiGate e-mail user](#)
- [Delete a PiGate e-mail user](#)
- [View Transfer Logs](#)

PiGate

192.168.1.69/system_setup.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

System Setup Menu

- [Return to the System Maintenance page](#)
- [Set Default WL2K Callsign](#)
- [Set the PiGate Clock](#)
- [Set the PiGate Regional Timezone](#)
- [Set the PiGate Timezone](#)
- [Set the PiGate Location](#)
- [Change the PiGate admin user password](#)
- [Change the PiGate admin user e-mail password](#)
- [Change the PiGate WiFi SSID and password](#)

Next set the regional time zone


PiGate

192.168.1.68/set_regional_timezone.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

Set Timezone Menu

- [Return to the Home page](#)
- [Return to System Setup](#)

The currently selected regional time zone is US

- Africa
- America
- Antarctica
- Asia
- Atlantic
- Australia
- Brazil

The current regional time zone will be displayed.

If you need to change the regional time zone select it from the list and press the "Submit" button. The time zones are set by the Raspbian OS running on the PiGate and can't be easily changed.


PiGate

192.168.1.68/set_timezone.php

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PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

Set Timezone Menu

- [Return to the Home page](#)
- [Return to System Setup](#)

Select the correct US time zone

- Alaska
- Aleutian
- Arizona
- Central
- East-Indiana
- Eastern
- Hawaii

Select your local time zone from the list presented. You'll have to do this again for each time you move into a new time zone.

The time zone list is determined by the Raspbian OS and can't be easily changed. It can be very long depending upon which regional time zone you selected.

Select your time zone and press the "Submit" button


At the next confirmation page select "Return to System Setup" again.

PiGate

192.168.1.68/set_gps_coords.php

HP Opsware SysAdmin Personal Bookmarks Weather and Climate Ham Radio DRUDGE REPORT YouTube Bookmarks Menu Bill Whittle Truth Revolt

PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

Set PiGate Location

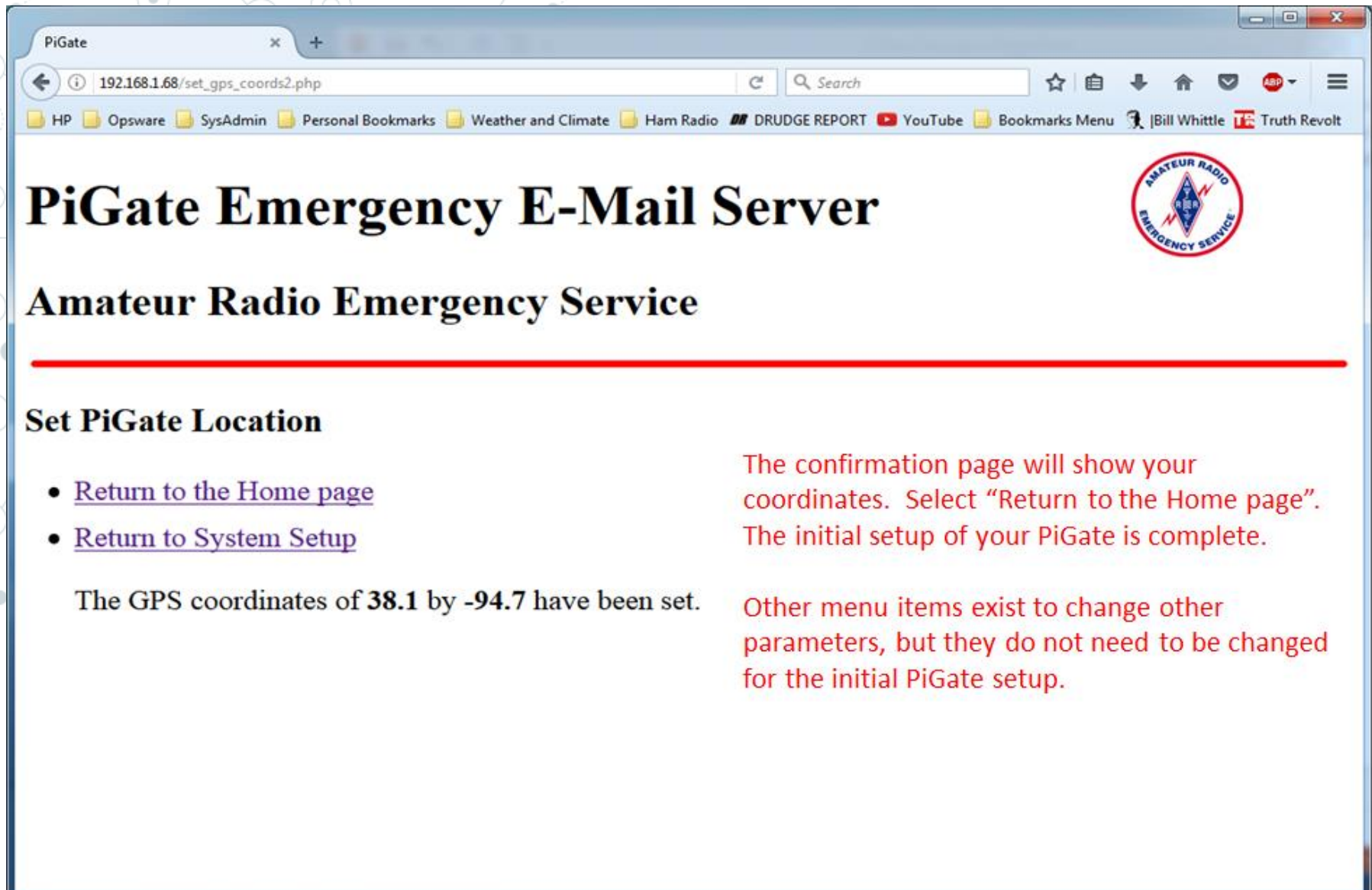
- [Return to the Home page](#)
- [Return to System Setup](#)

Enter the latitude and longitude of your current location. If coordinates are shown in the boxes below, your GPS system has already determined your location.

Latitude:

Longitude:

This is straight forward. If the boxes are empty, enter the GPS coordinates of your current location. Values like 38.1 for latitude and -92.4 for longitude will work. Each decimal point means a more precise location. Use a smartphone app to determine your location. YOU MUST use decimal values.




PiGate

192.168.1.68/set_gps_coords2.php

HP Opsware SysAdmin Personal Bookmarks Weather and Climate Ham Radio DRUDGE REPORT YouTube Bookmarks Menu |Bill Whittle Truth Revolt

PiGate Emergency E-Mail Server



Amateur Radio Emergency Service

Set PiGate Location

- [Return to the Home page](#)
- [Return to System Setup](#)

The GPS coordinates of **38.1** by **-94.7** have been set.

The confirmation page will show your coordinates. Select "Return to the Home page". The initial setup of your PiGate is complete.

Other menu items exist to change other parameters, but they do not need to be changed for the initial PiGate setup.

43% 12:06 AM



10.10.10.10/src/login.php

1



E-Mail version 1.4.23 [SVN]

By the PiGate Project Team

PiGate Email Server Login

Name:

Password:

Login



10.10.10.10/src/webmail.php



Folders

Last Refresh:
Tue, 2:18 pm
(Check mail)

ian

- INBOX
- Drafts
- Sent
- Trash

Current Folder: INBOX

[Sign Out](#)

[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#)

[PiGate.net](#)

This e-mail service is provided free of charge by amateur radio

Move Selected To:

Transform Selected Messages:

INBOX ▾ Move Forward

Read Unread

From	Date	Subject
THIS FOLDER IS EMPTY		





10.10.10.10/src/webmail.php

1



Folders

Last Refresh:
Tue, 2:19 pm
(Check mail)

ian

- INBOX
- Drafts
- Sent
- Trash

Current Folder: INBOX

[Sign Out](#)

[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#)

[PiGate.net](#)

Move Selected To:

Transform Selected Messages:

INBOX ▾ Move Forward

Read Unread

From	Date	Subject
------	------	---------

THIS FOLDER IS EMPTY



10.10.10.10/src/webmail.php

1



Folders

Last Refresh:
Tue, 2:19 pm
(Check mail)

ian

- INBOX
- Drafts
- Sent
- Trash

Current Folder: INBOX [Sign Out](#)

[Compose](#) [Addresses](#) [Folders](#) [Options](#) [Search](#) [Help](#) [PiGate.net](#)

To:

Cc:

Bcc:

Subject: //WL2K Emergency Message From [Put Your Name Here]

Put your message here. Do not edit the subject line except to add your name





10.10.10.10/admin.php

1



43% 12:08 AM

MAIN MENU

- [E-Mail Application](#)
- [Start/Stop AX25 Service](#) -- Currently **Disabled**
- [Poll RMS Station](#) ----- Last poll **Successful** to VE7GN 3597.0 hz
- [Change Polling Interval](#) --- Currently **Disabled**
- [Request E-Mail Documents](#)
- [Marine Weather](#)
- [System Maintenance](#)
- [Online Documents](#)

Thanks for listening.

I hope you found something of value that might start you on a new project.

