- Winlink Overview
- Airmail Installation
- Airmail Configuration for Telnet (over internet)
- Airmail Configuration for Packet (over V/UHF radio)
- Telpac Demonstration

What is Winlink?

 A Worldwide radio messaging system that takes advantage of the Internet where possible

 Utilizes standard RFC2821 e-mail protocols allowing flexibility with the most commonly used communications tool

Ability to send file attachments

 System is a 'star' based network containing 4 mirror imaged, fully redundant Common Message Servers (CMS)

 Radio Message Servers (RMS) connect like the end of spokes on a wheel

Why use Winlink?

Email messaging is common to most everyone (universal)

- Minimal training since message composition is just like Email
- Winlink's Suite of FREE applications provide flexible connection options
- Messages are easily archived with date/time stamp
- Compression of messages is more efficient for limited bandwidth

Let's see how it all fits together.....



Applications:

- Airmail Client
 - Telnet (internet connection)
 - Packet (VHF/UHF Radio connection)
 - Pactor (HF Radio connection)
- RMS Packet (Telpac) Gateway
 - Packet to Telnet bridge
- RMS Pactor
 - Pactor to Telnet bridge
- RMS Relay (still in development)
 - Holds messages if Internet is down
 - Bridges Packet to Pactor if needed

Applications:

- Paclink MP
 - POP/SMTP Server on LAN
 - Outlook, Thunderbird, WebMail
 - Tactical e-mail addressing
 - Telnet, Packet, Pactor connectivity
 - Channelized, can set path priority
 - AGWPE
- Outpost
- APRSLink

History:

- Winlink Development Team started this system in the early 80's
- Victor Poor wrote an Amtor to Packet link DOS application, Aplink
- Navy MARS users used a smaller client version of Aplink called PAMS
- Aplink gained recognition in the Gulf War in 1990 (CBS Documentary)
- Winlink Classic when Windows was available (text only)
- Netlink interfaced radio digital messaging to the Inernet
- Winlink/Netlink evolved into Airmail (written by Jim Corenman KE6RK)
- 1998 Winlink 2000 planning started and was working by Feb 1999
- Provides critical wx reports and forecasts to mariners and isolated users
- Built with complete redundancy to be used for Emergency Comms
- 150,000 messages monthly
- Over 5100 users via RF

Download from http://www.siriuscyber.net/ham/

Run Setup:

Airmail

WinZip Self-Extractor - amhc33081.exe Click "Setup" to install Airmail Version 3.3 Setup (Ham client version, installs as Airmail3.exe) Cancel About

Airmail3 Installation



Wecome to the Airmail3 Installation program!

This will install Airmail3 on your computer. When you click "Next", the install program will check for previously installed versions of the program.

If this is an update, using the same folder will preserve existing messages and address book entries.

Next >

Cancel



Airmail3 Installation



The first step is to choose a folder for the program installation. It is recommended that this be set to the default below, but you may change it if desired.

×

This is an update, the same folder should be used.

Install Airmail3 into the following folder:

C:\Program Files\Airmail

< Back

Next >

Cancel

Airmail

Airmail3 Installation



The next step is choosing whether you want to create a program shortcut on your Desktop and/or a Start Menu entry.

If you are not sure, then leave both selected. Shortcuts are easy to delete later.

- Make a shortcut on the Desktop
- Make an entry in the Start Menu

<<u>B</u>ack (Next > Cancel

X

×

Airmail3 Installation



Click "Finish" to start the installation, or "Cancel" to quit without installing.

Airmail3 files will be copied to: C:\Program Files\Airmail2\

A Start Menu shortcut will be created under "Radio" A Decktop Icon will be created.

This is a new installation, use the Tools/Options window to check your settings.

Install PTC-Ilusb Drivers

< Back Finish > Cancel

Accept all defaults:

Airmail3 Installation



Installation is complete!

You can start Airmail by selecting the Start-menu entry (under "Radio") or use the desktop icon.









X



Setup Radio connection Is your radio connected for remote control? No Yes Radio type: Image: Connected to: Modem's HF-Transceiver "Control" port Computer COM port: Image: Connected to: Baud rate: 4800 Image: Connected to:	Select No for radio remote control (unless you're using it)
Click "Next" to proceed to the next window	Click on Finish, basic setup is done
	Finished Setup is complete! NOTE: Audio levels must to be set. Open Terminal Window and select the Control menu and then "Set PTC Amplitudes". Click the "Finish" button to save changes and exit. Click the "Cancel" button to close without saving changes.
	< <u>B</u> ack Einish Cancel

Airmail

You are first greeted with the Inbox

🐔 AirMail - [Message Index]									
A File Edit View Message Tools Modules Window Help									
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🖃 🌍 AirMail	Message ID	From	То	Via	Subject	Size	Date	File	
E C:\Program files	1059_	Jim (ke6rk)		Import	Airmail 3.3.081 Release notes	25028	2008/03/28 03:09:30	C:\Program files\Airmail2\Inbox\10	59msg
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Airmail

Additional Options can be selected through the Tools Menu

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E C:\Program files	Update PTC-II Firmware	To	Via Import	Subject Airmail 3.3.081 Release potes	25028	Date 2008/03/28 03:09:30	File C:\Program files\Airmail2\Inbox\1059r	050
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Airmail

Compose Message

To Compose your message, click on File > New, or click on the new message icon

🐔 AirMail - [Message Index]									
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Dusting finished								1 Messages, none selected	03:12:28 utc
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Airmail

Compose Message

Address Book pops up, you can cancel to go straight to your message window or enter new

addresses

📕 Address Book						
Name	Address					
Jim (ke6rk)	ke6rk@airmail2000.com					
		Cancel				
		New				
		Properties				
		Delete				
Remember selection	on					
Parameters: (use the Properties button to change) Email Gate: Email						

Airmail

Compose Message

Enter your destination addresses. If going to Winlink account, only put the callsign. Separate multiple addresses with a comma. Enter your subject and type your message.

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File Edit View Message Tools Modules Window Help	
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A Message Index	
AirMal C:\Program files Bulletin Dutbox Outbox Transit To:	
	03:19:39 utc //

Airmail

Compose Message

Post Via is for routing. If routing message through internet, use WL2K. If sending message peer to peer, enter callsign of station you will connect to. (more peer to peer on later slide)

🗃 AirMail - [Untitled]		
🛋 Eile Edit View Message Tools Modules Window Help		_ @ ×
	f 🍯	
To: WX4GMA	Post Via:) WL2K	
Subject: Test message		
This is a test message for demonstration.		
p		03:25:48 utc

Airmail

Doct Politing

Post Message 🛛 🔀	
Available stations Available stations WX4GMA HAM WL2K WG3G AH6QK DL4HAO DX1FLR EA8RCT HB9MM HP2XBA Help Cancel	

In its simplest form the Message-Routing list is used for posting messages created within Airmail. There are typically two entries: One that says what to do with email created by the user, and another that says what to do otherwise (i.e. not email, for example a message to another ham callsign. For Winlink users these entries will be:

user -- email -- WL2K user -- default -- WL2K

This means messages created by the user and which are addressed to an email address will be posted "via" WL2K, and anything else is also posteed "via" WL2K. Note that the "default" entry is last, this is important- otherwise the "default" would match everything, and the "email" entry would never be used. Note that "WL2K" is a special system name, and matches any ham-station that identifies itself as "WL2K" in the system-id codes, via HF, packet or telnet.

AirMail Help ©1997-2006 Jim Corenman

Airmail

Click on Mailbox Icon to post for sending

🗲 AirMail - [Untitled]		
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To: WX4GMA	Post Via: WL2K	
Subject: Test message		
This is a test ressage for demonstration.		
	0	13:26:38 utc 🛛 🖉

Message is posted in Outbox (notice Icon)

Ŧ AirMail - [Message Index]									
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🖃 🍯 AirMail	Message ID	From To	Via	Subject	Size	Date	File		
C:\Program files Bulletin Minbox Cutbox Transit Trash	₩ 1060_KG4VUB	WX4GMA	WL2K	Test message	166	2008/03/28 03:27:16	C:\Program files\Airmail2\Outbox\1060_KG4VUB	.msg	
	J						1 Maccages, pope selected	02:27:51 utc	
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Airmail

Using Winlink 2000

Sending Via Telnet (Internet)

Click Modules, Internet Access

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⊡ 🛄 C:\Program files	🔊 📄 1060 🔤	Internet Access	WX4GMA	WL2K	Test message	166	2008/03/28 03:27:16	C:\Program files\Airmail2\Outbox\1060_KG4VUB.msg	
🕀 🔄 Outbox									
Transit									
								1 Messages, 1 Selected 03:2	:8:59 utc 🛛 📈

Sending Via Telnet

Airmail

Click on Settings

Internet Access (Telnet) File Edit Tools Image: Settings Delete New	Use the route (y be disp	ese settings for Telnet your callsign should layed)
Tx Data 0/0 bytes Rx Data 0/0 Connection Before connecting, first dial: Image: The new point of the new	Telnet Settings Connection Properties Remote Callsign: WL2KS Remote Host: server.winlink.org Port: 8772 Timeout (sec) 120 Local Callsign KG4VUB Password CMSTelnet Protocol: B2 B1 Include in Auto-check Can	

Airmail

Telnet Status

Watch the status of the connection to see how things are.

Look for errors and debug info if there is a problem.

Finternet Access (Telpet)	
File Edit Tools	کاریا.
🕞 😳 📷 WL2KS 💽 Settings Delete New	
2008/03/28 03:31:39 Opening connection to: server.winlink.org:8772 2008/03/28 03:31:44 Connected to: server.winlink.org: [142.177.196.170:8772]	
Callsign : KG4VUB Password :	
<pre>[wL2K:1.5.9.5-B2FIHM\$] [PC: 97523187 Halifax CMS > [AirMail-3.3.081-B2FHIM\$] [PR: wL2KS de KG4VUB 0TC: 1.174 150 FC EM 1060_KG4VUB 174 150 0 F> FD FS Y Sending "Test message", 150 bytes (14% compressed) FF FQ ;wL2KS de KG4VUB SK <protocol disconnect=""> 2008/03/28 03:31:46 Telnet Port Disconnected</protocol></pre>	
Tx Data 0/0 bytes 0/0 bytes	
Connection Before connecting, first dial:	
Auto check Check every min at minutes after the even interval	

Check All

Cancel

Close

Airmail

Message Sent

Once message is sent, the icon changes to green checkmark.

Image: Second Secon	🝜 AirMail - [Message I	ndex]						
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1 Messages, 1 Selected 03:33:11 utc						1	Messages, 1 Selected	03:33:11 utc 🏑

Airmail

Attach File to message

You	can	send	small	attac	hments
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Click on File > Attach File...

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New (Ctrl-N) A B <t< td=""><td>Post Via: WL2K Email Gate:</td></t<>	Post Via: WL2K Email Gate:
Tr Print (Ctrl-P) Import/Export) Attach File Exit File attached.	

Attach File to message

Airmail

Browse to the file you want. (.exe and .zipfiles will not go through the system)

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Attach File to message

Airmail

File attached, ready to send. Remember to check your Post Via, then click on Mailbox Icon to post.

😴 AirMail - [Untitled]		
🛋 File Edit View Message Iools Modules Window Help		- 8 ×
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To: kg4vub@gmail.com	Post Via: WL2K	
Ca	Email Gate:	
Subject: Test message		
This is a test message for demonstration.		
File attached.		
Tuning VHF Packet.rtf (14KB)		
		03:37:16 utc 🥢

Airmail

Packet Client Setup

To set up Airmail for RF Packet, click on Tools > Options...

Image: Second Secon		ndex]					
Image: Control of the second secon	🔍 Eile Edit View Messa	age <u>Tools</u> M <u>o</u> dules <u>W</u> indow <u>H</u> elr	p				_ 8 ×
	AirMail AirMail AirMail C:\Program files G Bulletin M Transit Transit Trash	Options Dumb Terminal Update PTC-II Firmware HouseKeeper Address Book Message Index CafeAirmail Make Frequency List Update Catalog Setup Wizard	To Via kg4vub@gmail WL2K WX4GMA HAM.Teln	Subject Sit Test message 143* Test message 2:	ze Date 45 2008/03/28 03:37:28 19 2008/03/28 03:31:46	File C:\Program files\Airmail2\Outbox\1061_KG4VUB.m C:\Program files\Airmail2\Outbox\1060_KG4VUB.m	15g 15g

Airmail

Packet Client Setup

Then click on Modules tab, select VHF Packet checkbox, then click Setup.

AirMail Options							
Connection Settings Folders	AutoAnswer Routing Fonts Modules Spelling						
Enabled Modules							
🔽 Terminal Window	Setup 📃 Auto-Start 🔽 Show in Taskbar						
🔲 Mail (pop/smtp) Client	Setup 🗖 Auto-Start 🧖 Show in Taskbar						
VHF Packet Client	Setup 🔲 Auto-Start 🥅 Show in Taskbar						
🔽 Internet Access (Telnet)	Setup 🗖 Auto-Start 🗖 Show in Taskbar						
🔲 Mail (pop/smtp) Server	Setup 🗖 Auto-Start 🗖 Show in Taskbar						
VHF Packet Server	Setup 🔲 Auto-Start 🔲 Show in Taskbar						
Position Reports	Setup 🔲 Auto-Start 🗖 Show in Taskbar						
Check "Show Hints" to display hir	nt messages in this box						
Show Hints Apply Cancel OK							

Here's where you select your TNC and COM port settings.

Packet Settings								
Connection	Port Settings							
TNC type: KAM+	Port 1							
Comm Port: com1 🔹	Tx Delay: 500 (ms)							
Baud Rate: 9600 💌	Persistance:	63	(1-255)					
Show link messages	Slot Time:	100	(ms)					
	Max Frames:	4						
	Frack (frame ack):	5000	(ms)					
	Max Retries	10						
	Response delay:	500	(ms)					
	Check time:	300	(sec's)					
	Packet Length:	128	(bytes)					
	Tx Audio Level:	500	milliVolts)					
	Radio Baud rate:	1200	•					
Charle UCharu USatell to Barlan biotecono a la Mie han								

Check "Show Hints" to display hint messages in this box

Show Hints

Cancel <u>O</u>K

Airmail

Send Via Packet

To send via RF Packet, click Modules > Packet Client.

🗧 AirMail - [Message Index]							
A File Edit View Message Tools Modules Window He	þ				- 8 ×		
🔲 📋 🗋 📽 🗘 🛓 💋 🛛 HF Terminal	🖻 🛍 🖤 🗐 🗐 🔲	5 5					
AirMail Mess Packet Client	To Via	Subject Size	Date	File			
E-C:\Program files	kg4vub@gmail WL2K	Test message 14345	2008/03/28 03:37:28	C:\Program files\Airmail2\Outbox\1061_KG4VUB.msg			
	WX4GMA HAM.Teln	Test message 219	2008/03/28 03:31:46	C:\Program files\Airmail2\Outbox\1060_KG4VUB.msg			
Transit							
Trash							
				2 Messages, none selected 03:39	9:44 utc 🛛 🎢		

Airmail

Send Via Packet Looks like the Telnet window.

Enter the RMS/Telpac node callsign where you wish to connect in the Connect to: box.... A digi can be added in the path by leaving a single space between the RMS callsign and the digi callsign.

Ex. Connect to: | KG4VUB-10 N3DAB-7 |

Aliases cannot be used for digi, must be the callsign for the digi.

Packet Client		
🔵 👜 📷 Connect to:	Connect As: KG4VUB	
2008/03/28 03:42:13 Packet initialized OK		
Tx Data 0/0 bytes	Rx Data 0/0 bytes	
Auto check		Close

Airmail

Send Via Packet

Make sure "Packet initialized OK" is displayed to ensure communication with the TNC is good.

Click on the green button to initialize the RF connection.

Packet Client					
o 💿 🐼 🖮	Connect to: N3DAB-10	•	Connect As:	KG4VUB	
2008/03/28 03:46:04 Pa	cket initialized OK				
Tx Data Auto check	0/0 bytes	Bx	Data	0/0 bytes	

Airmail

Packet Connect Status

Watch the status text and make sure there are no errors.

The status bar near the bottom indicates progress of message transfer.

Packet Client					[
🖸 🕶 📑 📄	Connect to: N3DAB-10	•	Connect As:	KG4VUB		
2008/03/28 03:46:04 Pa 2008/03/28 03:46:32 Ca CONNECTED to N3D N3DAB-10 Telpac v1.2.7 N3DAB-10 Winlink TELP Type H for Help, I for Info [WL2K-1.5.9.5-B2FIHM\$] ;PQ: 95766565 SanDiego CMS via N3DA [AirMail-3.3.081-B2FHIM\$] ;PR: ; N3DAB-10 de KG4VUB FC EM 1061_KG4VUB 14 F> 59 FS Y Sending "Test message";	cket initialized OK lling N3DAB-10, Connected at 03:46: AB-10 AC node. Jasper GA (EM74UL) Telnet Logon OK (AB-10 > (1) QTC: 1 14335 6843 4335 6843 0 (6843 bytes (52% compressed)	34				
Tx Data 30	35/6843 bytes	RxI	Data	0/0 bytes		
Auto shash						
Check every 60	minutes at 00 minutes after					Close

Airmail

Packet Connect Status

On successful delivery, you will see the F6FBB commands FF FQ.

Make sure the link disconnects.

	Connect to: N3DAB-10	•	Connect As:	KG4VUB	
2008/03/28 03:46:04 2008/03/28 03:46:32 CONNECTED to N N3DAB-10 Telpac v1 N3DAB-10 Winlink TE Type H for Help, I for [WL2K-1.5.9.5-B2FIH :PQ: 95766565 SanDiego CMS via N	Packet initialized OK Calling N3DAB-10, Connected at 03:46: I3DAB-10 .2.7 LPAC node. Jasper GA (EM74UL) Info Telnet Logon OK M\$] 3DAB-10 >	34			
AirMail-3.3.081-B2FH ;PR: ;N3DAB-10 de KG4V FC EM 1061_KG4VU F> 59 FS Y Sending "Test messa; FF	IM\$) UB QTC: 1 14335 6843 3 14335 6843 0 ge'', 6843 bytes (52% compressed)				
FQ ; N3DAB-10 de KG4V **** DISCONNECTED 2008/03/28 03:49:09 	UB SK Disconnected from N3DAB-10				
		5			
Tx Data	6843/6843 bytes	Rx	Data	0/0 bytes	
Auto check	minutes at 00 minutes after				Close

Messages sent (notice the Icon changes to green checkmark)

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🖃 🤤 AirMail	Message ID	From To	Via	Subject	Size Date	File	
🖻 🔚 C:\Program files	1061_KG4VUB	kg4vub@gmail	HAM.PKT	Test message	14398 2008/03/28 03:46:40	C:\Program files\Airmail2\Outbox\1061_KG4VUB.	msg
	1060_KG4VUB	WX4GMA	HAM.Tein	Test message	219 2008/03/28 03:31:46	C:\Program files\Airmail2\Outbox\1060_KG4VUB.	msg
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	J					2 Maccagos 1 Salastad	12,40,29 uka
						Zimessayes, 1 Selected	J3:49:20 UCC

Peer to Peer Connections

Airmail

The receiving station should make sure that its "Tools...Options....AutoAnswer" box is checked for "Accept Incoming Connects".

Both stations should be using the Handshake mode.

The message should be Posted to the Receiving station.

Airmail

Options Message

To change system settings, such as max file attachment size and Whitelist

Click on Window > Winlink-2000 > Options Message

🐬 AirMail - [Message In	🔋 AirMail - [Message Index]								
💐 File Edit View Messa	ige Tools Modules	Window Help					_ 8 ×		
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🖃 🌍 AirMail	Message ID	Tile Horizontally	y Via	Subject	Size	Date	File 🔼		
😑 💼 C:\Program files	1232_N4VAD	Cascade	HAM.Teln	sunday area gni apr 5	490	2008/04/06 22:41:58	C:\Program files\Airmai		
	🕺 1013_WA4ZXV	Terminal (F6)	HAM.Teln	Net Check In	488	2008/04/06 22:41:58	C:\Program files\Airmai		
	🗾 1092_N4BTA	Address Book	HAM.Teln	Checkin 4/6/08	533	2008/04/06 22:13:56	C:\Program files\Airmai		
E Outbox	🕺 1113_KI4FLJ	Catalogs	HAM.Teln	Please check in KI4FLJ Cher	492	2008/04/06 22:03:34	C:\Program files\Airmai		
	🛃 1323_K4HBI	Position Reports	HAM.Teln	STATE ARES HE NET CHECKIN	657	2008/04/06 21:50:30	C:\Program files\Airmai		
	🗾 1014_KG4WBB	SailBlogs	HAM.Teln	A.R.E.S. Check-in	761	2008/04/06 21:40:52	C:\Program files\Airmai		
	ZTESXUAQRKP	Winlink-2000 🔹 🕨	Options Message eln	checkin	489	2008/04/06 21:40:50	C:\Program files\Airmai 🔤		
	🕺 1160_KR4P	Files 🕨	Position Report eln	winlink net check KR4P	496	2008/04/06 21:40:50	C:\Program files\Airmai		
	🛃 1016_W4TGA	1 Maccade Index	Position Request	Checking in for GA ARES net	514	2008/04/06 21:40:50	C:\Program files\Airmai		
	🛃 1158_K4TDM 📗	I Message Index	HAM.Teln	4/6 check-in	485	2008/04/06 20:44:58	C:\Program files\Airmai		
	🕺 1066_KG4VUB	KG4VUB	HAM.Teln	4/6 ares net checkin	491	2008/04/06 20:44:58	C:\Program files\Airmai		
	DQ1BYRKF00UZ	2 WB4QDX	HAM.Teln	04/06/08 ARES Check in	578	2008/04/06 20:32:06	C:\Program files\Airmai		
	🕺 1140_KI4NWD	KI4NWD	HAM.Teln	Check in 04-06-08	506	2008/04/06 20:32:06	C:\Program files\Airmai		
	赵 1089_K4DOI	K4DOI	HAM.Teln	1st Sunday Monthly Check-I	533	2008/04/06 20:32:06	C:\Program files\Airmai		
	🕺 1042_WA4UJC	WA4UJC	HAM.Teln	Check in 04/06/2008	501	2008/04/06 20:32:06	C:\Program files\Airmai 🥃		
					705				

16 Messages, 1 Selected

04:40:37 utc

Options Message

Airmail

Here, turn Whitelist On or Off, Attachment limit for RF, and you can also tell the system to forward your <callsign>@winlink.org email messages to another 'Alternate' address.

Winlink-2000 Options 🛛 🛛 🔀						
-Winlink-2000 System Settings						
Spam Threshhold: 4						
🔽 Use WhiteList 📃 Send Whiltelist Notifications						
Attachment Limit 🔲 (max size in bytes, or "0" for no attachments)						
Callsign Prefix: Suffix:						
Alternate Address: (Message forwarding address)						
Check "Show Hints" to display hint messages in this box						
Show hints Send Via: Query only Send Cancel						

Options Messages can be sent as a message.

Airmail

You can turn Whitelist On or Off. If turned On, you can specify email addresses and domains to allow incoming messages.

Attachment size and other options can also be done this way.

	🕏 AirMail - [Untitled]		
	📄 Eile Edit View Message Iools Modules Window Help		- 8 ×
	Ⅲ 📋 🗂 🛩 🗘 🛔 🕖 🗄 🏝 🍈 🖙 光 ங 🖦 ザ 🖽 🗉 🔲 🍠 🌍		
	To: SYSTEM	Post Via: WL2K	
	Subject: REQUEST		
	Whitelist: ON		
77			
-			
-			
74			
	F	n	4:58:12 utc 🛛 🖉

After entering your Options, post the message for sending and connect to the WL2K system.

Airmail

To check your options, you can send a INQUIRY message and receive the info the next time you connect.

	Ŧ AirMail - [Untitled]		
	📄 Eile Edit View Message Iools Modules Window Help		- 8 ×
	Ⅲ 📕 🗅 🛩 🗘 🛔 🕖 🗄 🏝 🍙 🖙 % ங 🗈 🎔 🖽 🗉 💆 👙		
	To: SYSTEM	Post Via: WL2K	
	Subject: REQUEST		
	Whitelist, ON		
74			
7/7			
/			
			04:58:12 utc 🛛 🦯

Airmail

Dumb Terminal

Dumb Terminal mode can be used to change TNC settings. Make sure the Packet Client Module is closed before running Dumb Terminal.

🗃 AirMail - [Message Index]								
💐 File Edit View Message Tools Modules Window Help								
🔳 📋 🖆 🚅 🔍 📩 Options	🖻 🛍 🖤 🔠 🔲 📘 🛔	§ 🔄						
Qumb Terminal Update PTC-II Firmware HouseKeeper Address Book Message Index CafeAirmail Make Frequency List Update Catalog Setup Wizard	To Via kg4vub@gmail HAM.PKT WX4GMA HAM.Teln	Subject Size Test message 14398 Test message 219	Date 2008/03/28 03:46:40 2008/03/28 03:31:46	File C:\Program files\Airmail2\Outbox\1061_KG4VUB.msg C:\Program files\Airmail2\Outbox\1060_KG4VUB.msg				
				2 Messages, 1 Selected 03:4	9:46 utc 🏼 🎢			

Airmail

Dumb Terminal

Set the COM port and speed, then click in the main body of window. You might need to uncheck Local Echo if you start seeing double.

<u>File E</u> dit			
Local Echo 🗖 COM1	? 9600 🔽 🔽	Open 🔽 DTR 🔽 RTS	6 Reset Host
cnd: cnd:xmitok XMITOK ON cnd:axd AXDELAY 30 (300 msec) cnd:txd TXDELAY 50 (500 msec) cnd:mycall MYCALL KG4VUB cnd:			
COM1 Open CTS=1 DSR	=1 DCD=0 RI=0		

Catalogs - Airmail and Winlink support catalog file downloads. Click on Window Catalogs and browse around. Select one and next time you connect, the request will be sent. Connect again and you should receive your info.

<u>File View Message Tools Modules</u>	Window Help				- 8
1 📋 🗗 📽 🗘 🛓 🖉 🗒	Tile Vertically	🖻 🖤 🖽 🖻 📮 💈	()		
🚞 SAT_PIX	Tile Horizontally	Code	Description	Size Date	
WL2K_HELP	Cascade	Death.Valley	DEATH VALLEY - NPS Report	3132 2005/08/0	
WL2K_USERS	Terminal (F6)	FPAK11.PAFA	AK	133250 2000/12/3	
	Address Book	FPCA62.TJSJ	PR	16081 2000/12/3	
	<u>C</u> atalogs	FPHW60.PHF0	н	15457 2000/12/3	
	Position Reports	FPUS61.KAKQ	VA	5542 2001/06/2	
	SailBlogs	FPUS61.KBOX	CT, MA, RI	1238 2000/12/3	
	<u>W</u> inlink-2000 ►	FPUS61.KBTV	VT	6235 2000/12/3	
	Files ▶	FPUS61.KCLE	OH	12310 2001/06/2	
		FPUS61.KCTP	PA	12204 2000/12/3	
	1 Cat Tree	FPUS61.KGYX	ME, NH	11832 2000/12/3	
	<u>2</u> Message Index	FPUS61.KLWX	MD, WV	7334 2001/06/2	
		FPUS61.KPHI	DE, NJ	1234 2000/12/3	
WX_CAR_GULF		FPUS61.KRLX	KY	8323 2001/06/2	
- 🔄 WX_DENMARK		FPUS62.KCAE	SC	22812 2000/12/3	
- 🗀 WX_EUROPE	Once	FPUS62.KFFC	GA	10246 2000/12/3	
WX_FAX		FPUS62.KMFL	FL	54797 2000/12/3	
WX_FRANCE		FPUS62.KRAH	NC	6480 2000/12/3	
WX_GERMANY		FPUS63.KBIS	ND	16496 2000/12/3	
		FPUS63.KDTX	М	19006 2000/12/3	
WX_GREENLAND		FPUS63.KFSD	SD	9066 2000/12/3	
WX_G1_LAKES		FPUS63.KLOT	IN, IA	10366 2001/06/2	
WX_HIGH_SEAS		FPUS63.KLSX	IL, MO	12414 2001/06/2	
		FPUS63.KMKX	WI	9482 2000/12/3	
		FPUS63.KMPX	MN	12384 2000/12/3	
		FPUS63.KOAX	NE	13464 2000/12/3	
		FPUS63.KTOP	KS	13194 2001/06/2	
WX MED		ated bullation		101110 0000 1000	
Date					
I List Date: 2006/12/04 01:46	© Once C R	equest every C days			C
				3 Messages, none selected	03:55:34 u
					and the second sec

3 Messages, none selected

03:56:09 utc

Airmail

Catalogs

Notice Icon changed for posting, request is ready to be sent.

🗃 AirMail - [Message Index]								
🔊 Eile Edit View Message Iools Modules Window Help								_ @ ×
🔲 🔳 📑 📽 🌒	10 B B 4	い 2 時 6 ジ 1		§ 6)				
🖃 🌍 AirMail	Message ID F	From To	Via	Subject	Size	Date	File	
🖻 🧰 C:\Program files	🔊 🗈 1062_KG4VUB	INQUIRY	WL2K	REQUEST	147	2008/03/28 03:54:43	C:\Program files\Airmail2\Outbox\1062_KG4VUB.msg	
🕀 🧰 Bulletin	1061_KG4VUB	kg4vub@gmail	HAM.PKT	Test message	14398	2008/03/28 03:46:40	C:\Program files\Airmail2\Outbox\1061_KG4VUB.msg	
- Marin Indox	1060_KG4VUB	WX4GMA	HAM.Teln	Test message	219	2008/03/28 03:31:46	C:\Program files\Airmail2\Outbox\1060_KG4VUB.msg	
Saved								
🚞 Transit								
in Irash								
< >								

Airmail

Catalogs

Again, watch the status of the connection and download.

	The second secon	
	Eile Edit Iools	
	🗨 🚥 🔛 WL2KS 💌 Settings Delete New	
	2008/03/28 03:56:21 Opening connection to: server.winlink.org:8772 2008/03/28 03:56:22 Connected to: server.winlink.org: [142.177.196.170:8772]	
	Callsign : KG4/UB Password :	
	[WL2K-1.5.9.5-B2FIHM\$] ;PQ: 96615847 Halifax CMS > [AirMail-3.3.081-B2FHIM\$] ;PR: ;WL2KS de KG4VUB QTC: 1.140.131 ;WL2KS de KG4VUB QTC: 1.140.131	
	FC EM 1062_KG4V0B 140 131 0 F> 03 FS Y Sending "REQUEST", 131 bytes (6% compressed) FF	
	FQ ; WL2KS de KG4VUB SK (protocol disconnect)	
	2008/03/28 03:56:23 Telnet Port Disconnected	
7	Tx Data 131/131 bytes 0/0 bytes	
	Connection Before connecting, first dial:	
	Auto check min at minutes after the even interval	
	Check <u>A</u> ll Ca	ncel Close

---- Q8510 How do I access the Winlink system, using Keyboard Access?

A8510 Connect to a Telpac or RMS Packet Gateway Station.

LM List all messages for me. RM Read all messages for me. KM Kill (delete) all messages for me. R xx Read content of message number xx. K xx Kill message number xx. SP Send a message (see A8520) H Help File Bye Disconnect

- New e-mail addresses are automatically added to your Whitelist when the CMS receives the message from you, independent

New e-mail addresses are automatically added to your Whitelist when the CMS receives the message from you, independent
of which user program you are using.
 Whitelist settings

To: System Subject: Whitelist LIST will return a list of all Whitelist and Blacklist entries for the user.

ACCEPT: jblow@somewhere.com will allow messages from jblow@somewhere.com to be accepted. You may send multiple lines, each containing one e-mail address.

Reject: jblow@somewhere.com will reject any messages from jblow@somewhere.com. You may send multiple lines, each containing one e-mail address.

Delete: jblow@somewhere.com will remove jblow@somewhere.com from the user's Whitelist. You may send multiple lines, each containing one e-mail address.

ACCEPT: arrl.net will allow all messages from xxxxxx@arrl.net to be accepted

REJECT: Verizon.com will reject all messages from xxxxxx@verizon.com

IMPORTANT NOTE: Domain Entries without the "@" will be treated as "domain names" only. For example if "Accept: sailmail.com" were entered, then ANY message from that "domain name" (sailmail.com) would be accepted.

- Q630 How does the Winlink system deal with Spam?

A630 Messages incoming to WL2K users are filtered, using high level methods, by the Central Message Server (CMS). Winlink 2000 uses the information from SPAMCOP. It also requires a reverse DNS lookup. Each server IP address must return a PTR-record that matches the HELO or ELHO command received from that server and it must have an A-record that matches the host name shown in the HELO or ELHO command. If such a record exists, then it has entry to the Whitelist system.

In addition, individual WL2K users have the ability to use a "Whitelist". "Whitelist" is the default method for new users. Your choice may be changed at any time. If you decide to not use your Whitelist, you will get a lot of Spam. It is recommended that all users turn their Whitelist "ON".

As of September 2007 WL2K is no longer using a Spam Filter with a "Threshold". Ignore references to a Spam Threshold in the AirMail software.

Running Airmail under Windows Vista

There's certainly been a lot of discussion about Windows Vista. If your new computer came with Vista then that's great, it works fine. But if you have the option of using Windows-XP then that would be our recommendation. Win-XP is robust and reliable, if yours is not then something has been compromised and you need to fix it or start over-- upgrading won't help.

Airmail runs fine under Windows Vista, but there are a couple of issues related to new Vista security features-- the "release notes" message keeps re-appearing on each restart, as does a "pop-up" box that the configuration has been updated. The simplest fix is to delete the release notes ("amupdate.msg" from Airmail's Import folder, under Program Files) and the "system.sailmail.txt" text-file in the Airmail folder. Also Right-click Airmail's desktop icon and select "properties", click on "compatibility" tab and then check the "Run in compatibility mode" box and select "Windows-XP", this will enable Airmail's COM-port identification.

Alternately you can run Airmail as an administrator, that will allow Airmail full access to its own files. (By default Vista "demotes" administrators to normal users). Right-click Airmail's desktop icon and select "properties", click on "compatibility" tab and then check two boxes: run in compatibility mode for Windows-XP, and run as administrator. This will allow Airmail to have full access to its own folders and delete the release-notes and configuration files.

The third option is to turn off UAC (see below). This has the same effect as running Airmail as an administrator, but also extends admin privileges to all other programs (including malicious code if you are not careful about computer security).

The culprit with all this is a new security feature in Win-Vista called "UAC" (User Account Control). (Remember, if you can do anything useful with your computer then it is not sufficiently secure). UAC is a watchdog service that warns you if you (or a program) are trying to do something that requires administrator privileges, e.g. delete protected files or run a program not specifically designed for Vista. And, if a program attempts to write into protected areas (e.g. the "program files" folder), then access is diverted to a virtual folder created for that user. The result, for Airmail, is a mild case of schizophrenia, and release-notes that just keep reappearing because the file (in Airmail's Program Files/Import folder) can't be deleted.

Running Airmail in administrative mode (by checking the "run as administrator" box, above) allows Airmail to fully access its own files and resolves that problem. Also, turning off UAC will accomplish the same thing. To turn off UAC go to Windows Control panel, open "User Accounts" and find "User Account Control".

Running Airmail under Windows Vista - Continued

There is one wrinkle with changing the run-as-administrator setting and/or turning off UAC after Airmail has been run: Your messages and settings may disappear. This is because Vista was previously diverting Airmail's files to a "virtual" folder, and with UAC off (or run-as-administrator selected) it will stop doing this. The fix is to move your messages back to the "proper" folder: Close Airmail, open Windows Explorer (under "Accessories" in the Windows start menu), find "Computer", then C-drive, Users, your user-name, AppData, Local, VirtualStore, then "Program Files" and finally "Airmail". In that folder you will find all of your message-folders and settings files-- move the whole lot to the Airmail folder that is under Program Files. If the UAC/admin settings change again then Vista will start diverting Airmail's files again-- but you now know where to go and fetch them back.

Note: Windows does not like to show the contents of system folders: Open Windows-Explorer's "Tools" menu, "Folder Options". Click the "View" tab, and check "Show hidden files and folders", NO check for "Hide file extensions for known file types", NO check for "Hide protected operating system files" (and click "Yes" to the confirmation). This will show all files, and also show file-extensions.

Running Airmail as administrator will show a warning box each time it is run, and turning off UAC will show a warning with each reboot, those are unavoidable. And of course if you turn off UAC be doubly-careful to keep your anti-virus software up-to-date.

Help file: Vista does not include the program to display the traditional help files, "Winhlp32.exe". This may be available for download, alternately it can be copied from Windows-XP C:\Windows folder. To do this you will first need to set the permissions for the C:\Windows folder to allow Administrators full access, and to do this you will need to first take ownership (right-click the Windows folder, select properties, then Security tab, Advanced button, Owner tab, Edit button). Then copy the complete (277KB) Winhlp32.exe from Win-XP over the 9KB "stub" Winhlp32.exe on Win-Vista.

The upcoming Airmail 3.4 update will fix all this, moving message-folders into Win-Vista's "ProgramData" user-space and gathering up any virtual-folders that were created. The help file will also be converted to HTML format. The goal is for Airmail to run smoothly under Vista's highest security settings but this will take some effort.

--Jim (revised Mar 5 2008)

Airmail

Using Winlink 2000

Tune in later for details on RMS Packet installation and use.

Upcoming presentations on Paclink MP installation and configuration and use.

Winlink 2K for Dummies http://www.winlink.org/node/23 http://groups.yahoo.com/group/LOADING_WL2K_USER_PROGRAMS/

A Winlink Help Page http://www.activeham.com/winlink/wiki/index.php?title=Main_Page

Airmail download http://www.siriuscyber.net/ham/

Airmail Support http://groups.yahoo.com/group/airmail2000/

Running Airmail on Vista http://saildocs.com/vista

Rules of Engagement for Winlink 2000 http://www.winlink.org/node/16

Airmail

CMS Status http://www.winlink.org/CMSStatus

Telpac/RMS Status http://www.winlink.org/RMSpacketStatus

Telpac/RMS Position Maps http://www.winlink.org/RMSPacketPositions

RMS Packet (Telpac replacement still in Beta) http://groups.yahoo.com/group/RMSBeta/

Paclink MP http://groups.yahoo.com/group/PaclinkMP

Winlink 2000 Roadmap http://www.winlink.org/node/19

Winlink use in EmComm http://groups.yahoo.com/group/wl2kemcomm/

F6FBB protocol http://www.f6fbb.org/protocole.html

F6FBB B2 http://www.winlink.org/B2F

Linux version of Telpac http://www.prgm.org/projekte/telpac-node/