Some slides gently stolen from a video by Rick Frost, K4REF

CACHE COUNTY ARES
GETTING STARTED WITH WINLINK 2000

WHAT IS WINLINK?

- Global system for e-mail via radio
  - Useful when Internet is not available (e.g. sailing)
  - Radio - Internet email
  - Radio - Radio email ("peer-to-peer")
- Standard e-mail backup for EMCOMM
  - Amateur radio (e.g. RACES, ARES)
  - Federal (e.g. DHS)
  - State and Local agencies

REQUIRED EQUIPTMENT

- The required equipment needed to operate within the Winlink2000 system is:
- (1) a Windows-operating system computer,
- (2) a VHF/UHF or HF transceiver., and
- (3) a terminal node controller (TNC or radio modem) or a sound card interface.
- *Microsoft's Net Framework 1.1, not 2.0. Service packs also are necessary for Win2000 and WinXP.*

PREFERED VHF TNC $200

COMPATIBLE TNC'S ARE:

- Kantronics KPC3, KPC3+, KAM98, KAM+, KPC9612
- AEA/Timewave PK-88, PK-232, PK900, DSP232, PK-96
- MFJ-1278 – ROM version 3.7 needed
- Kenwood Radios with built in TNC – TH-D710, D700
- Byonics TinyTrak4
- Sound Card Modems – Signal link, etc.
- SCS modems for HF Pactor (High Cost)

KPC CONNECTIONS

KENWOOD TH-D710 $500

SIGNALINK - USED FOR HF $100

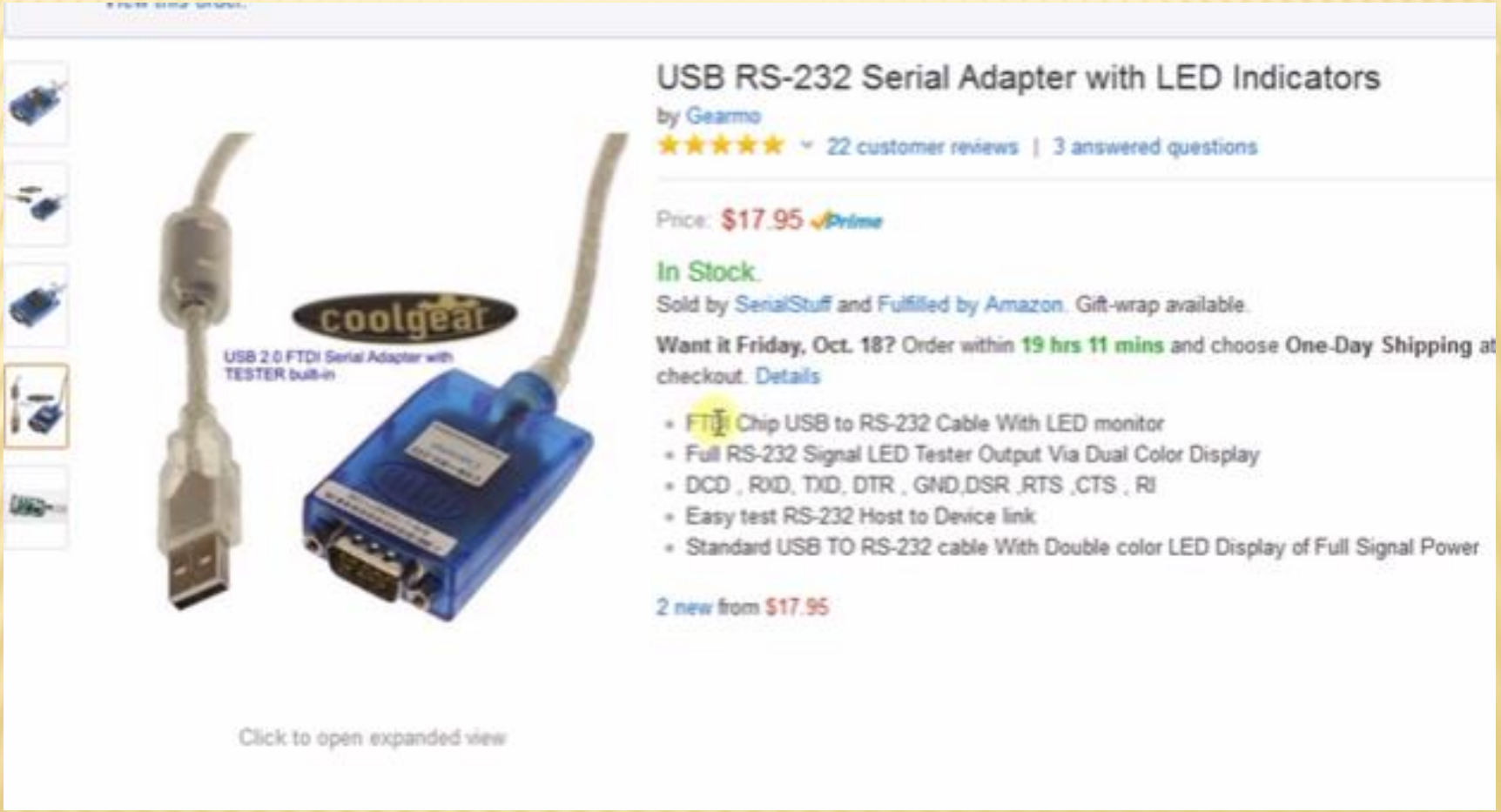
SIGNALINK CONNECTIONS

SCS P4 MODEM $1500

SERIAL CONNECTIONS

USB ADAPTORS

USB Serial Adapters:
Prolific
FTDI
(FTDI-prefered)


USB RS-232 Serial Adapter with LED Indicators
by Gearmo
22 customer reviews | 3 answered questions
Price: $17.95
In Stock.
Sold by SerialStuff and Fulfilled by Amazon. Gift-wrap available.
Want it Friday, Oct. 18? Order within 19 hrs 11 mins and choose One-Day Shipping at checkout. Details
FTDI Chip USB to RS-232 Cable With LED monitor
Full RS-232 Signal LED Tester Output Via Dual Color Display
DCD , RXD, TXD, DTR , GND,DSR ,RTS ,CTS , RI
Easy test RS-232 Host to Device link
Standard USB TO RS-232 cable With Double color LED Display of Full Signal Power
2 new from $17.95
coolgear
USB 2.0 FTDI Serial Adapter with TESTER built-in
Click to open expanded view

DOWNLOAD SOFTARE FROM WINLINK.ORG

WINLINK Global Radio Email

My Account | Tools | News | Position Reports | Client Software | The Book of Knowledge | Support

Get RMS Express

The *only* client with **everything** Winlink offers.
Easy to setup, learn and use. Fully supported. *Free.*
Every ham needs email when the internet is down-- locally, regionally, or *everywhere*!
Download the latest production release.

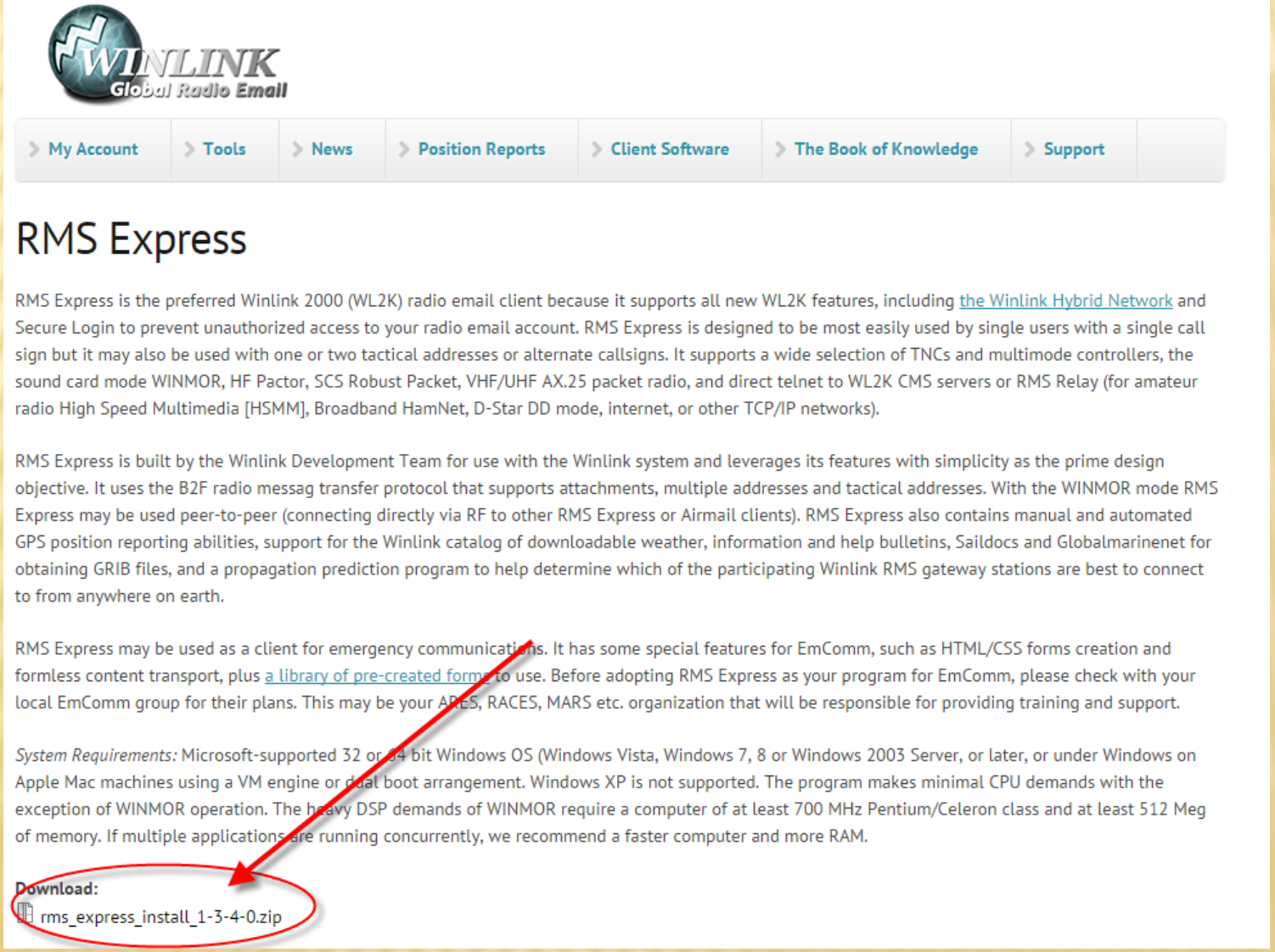
A New Open Protocol is Coming

A new, open radio protocol is in the future for Winlink users, and for amateurs everywhere. ARDOP (Amateur Radio Digital Open Protocol) is a new cooperative radio protocol project in which the Amateur Radio Safety Foundation and Rick Muething, KN6KB, of the Winlink Development Team is proud to have a major role. ARDOP will ultimately replace WINMOR in the Winlink system because of it's superior features and multiple platform (OS) support.

Network Station News

- KK4ZUU-11 new 40m HF node *test me* 25w FM18GT
- W7CWY
- VE7RBH going Off Air for a while
- KK4ZUU-10 (Frequency for VHF packet?)
- N8OHU-10 Packet/UHF ARDOP node
- XE2EOS out of service (xe2/n6kzb)
- VA7TSA UPDATE: Down until further notice
- HS0ZIB - New Winlink HF station on Phuket Island, Thailand
- VE7RBH frequency changes
- AG6QO Gateway Maintenance is Complete
- AG6QO Gateway will be down for maintenance - JUN 8 0330Z-1400Z
- XE1VP back in service, damage repaired. (xe2/n6kzb)
- XE1VP lightning damage, off line for now (xe2/n6kzb)
- K9EW (2015-05-28)
- VA7TSA Update: SCS-PTC USB tnc Pactor 4 added
- KD8PGB is now W5DMH Great Lakes Station
- S50ARO now P4 QRV.
- K9LAE 40 METER WINMOR NODE IS BACK ON THE AIR

DOWNLOAD THE ZIP FILE



OTHER SOFTWARE LINKS

WINLINK Global Radio Email

My Account | Tools | News | Position Reports | Client Software | The Book of Knowledge | Support

Get RMS Express

The *only* client with **everything** Winlink offers.
Easy to setup, learn and use. Fully supported. *Free.*
Every ham needs email when the internet is down-- locally, regionally, or *everywhere*!
Download the latest production release.

A New Open Protocol is Coming

Network Station News

- KK4ZUU-11 new 40m HF node *test me* 25w FM18GT
- W7CWY
- VE7RBH going Off Air for a while
- KK4ZUU-10 (Frequency for VHF packet?)
- N8OHU-10 Packet/UHF ARDOP node
- XE2EOS out of service (xe2/n6kzb)
- VA7TSA UPDATE: Down until further notice
- HS0ZIB - New Winlink HF station on Phuket Island, Thailand
- VE7RBH frequency changes
- AG6QO Gateway Maintenance is Complete
- AG6QO Gateway will be down for maintenance - JUN 8 0330Z-1400Z
- XE1VP back in service, damage repaired. (xe2/n6kzb)
- XE1VP lightning damage, off line for now (xe2/n6kzb)
- K9EW (2015-05-28)
- VA7TSA Update: SCS-PTC USB tnc Pactor 4 added

USER SOFTWARE AND COMPARISON

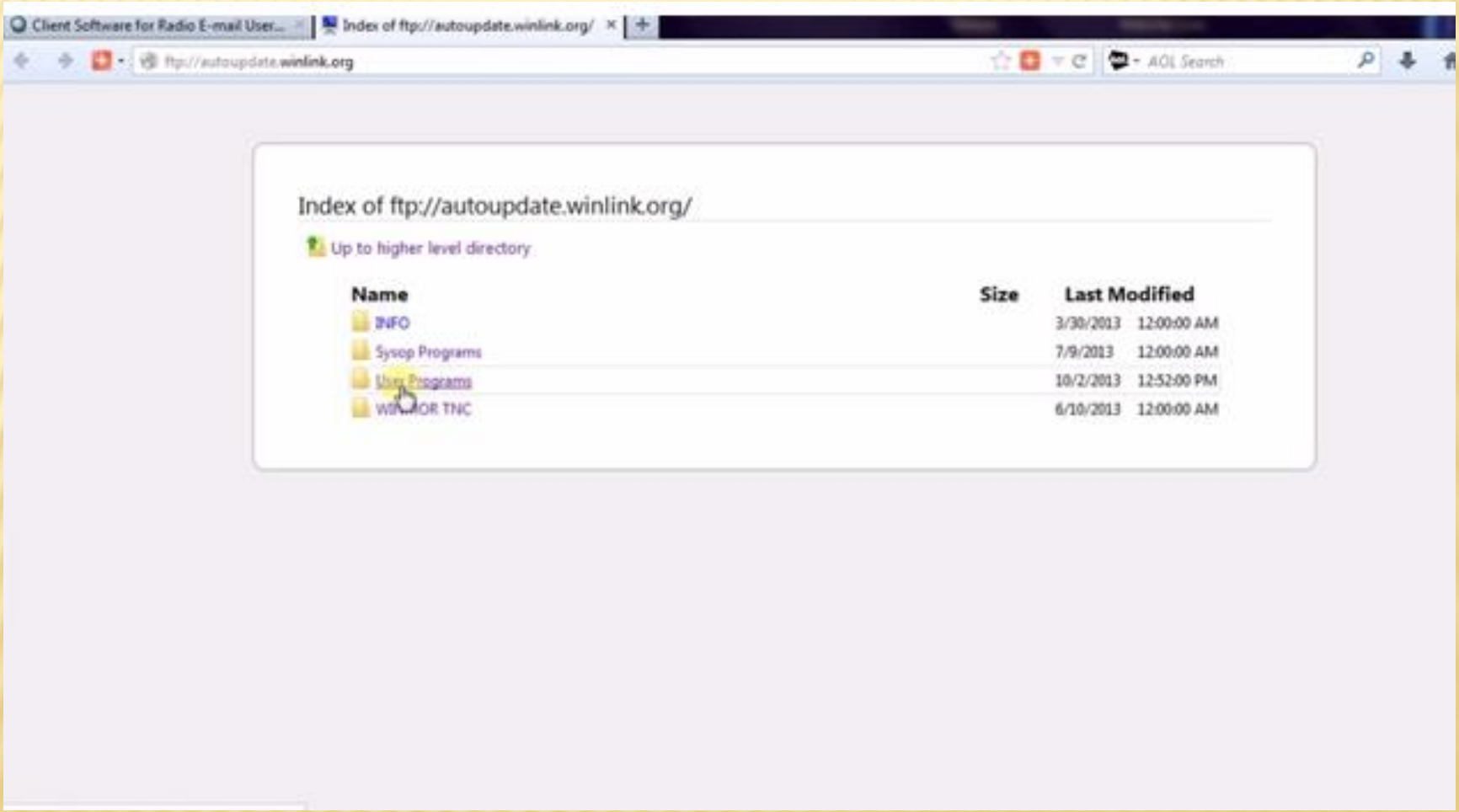
WINLINK Global Radio Email

My Account | Tools | News | Position Reports | Client Software | The Book of Knowledge | Support

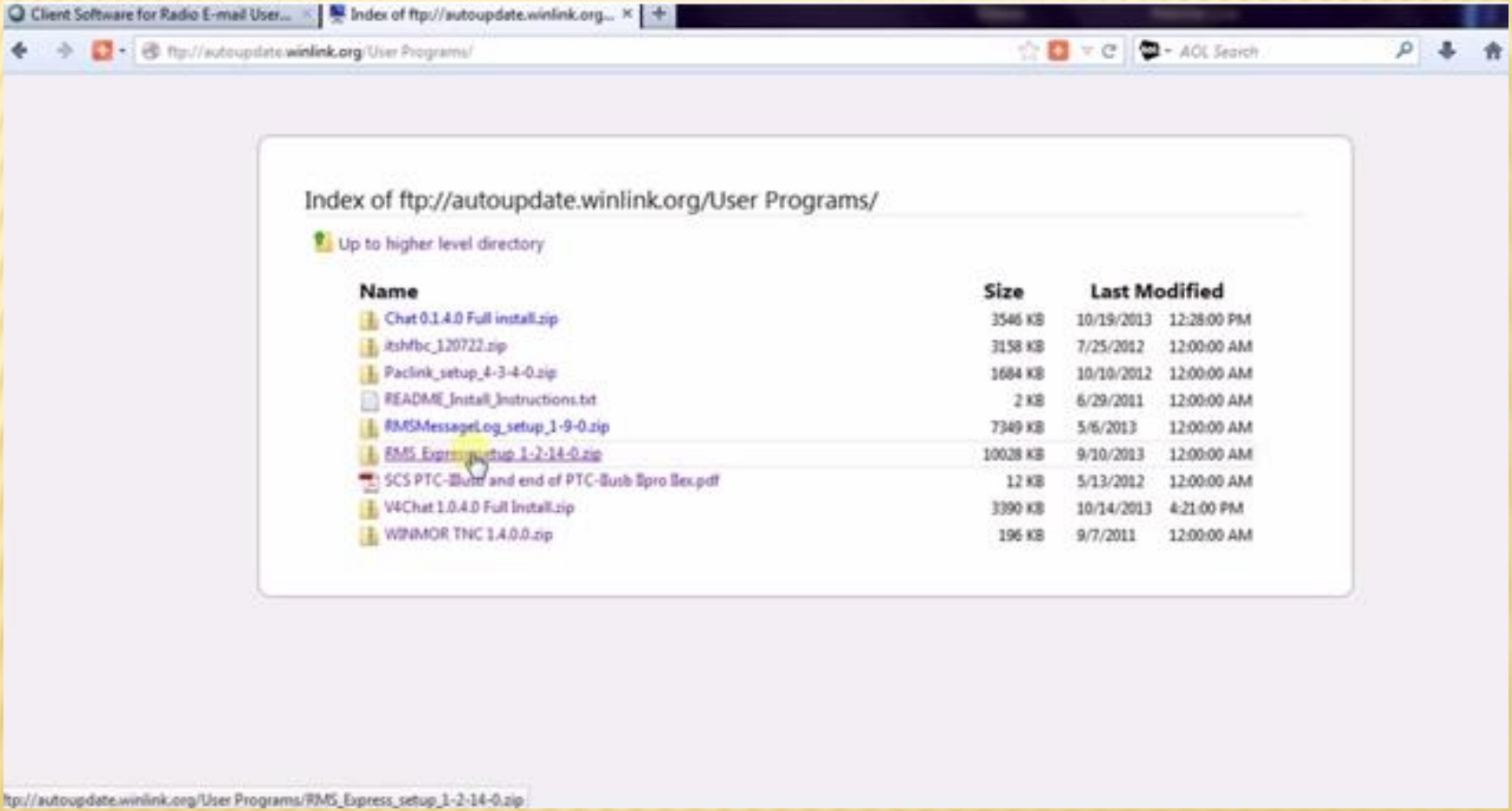
Compare Client Programs

Programs (Download)-> Features below	Dumb Terminal	Outpost	AirMail	Paclink-Unix	Paclink	RMS Express
TELNET	No	Yes	Yes	Yes	Yes	Yes
AX.25 PACKET	Yes	Yes	Yes	Yes	Yes	Yes
PACTOR 1-3	No	No	Yes	Yes	Yes	Yes
PACTOR 4	No	No	Yes	No	Yes	Yes
WINMOR	No	No	No	No	No	Yes

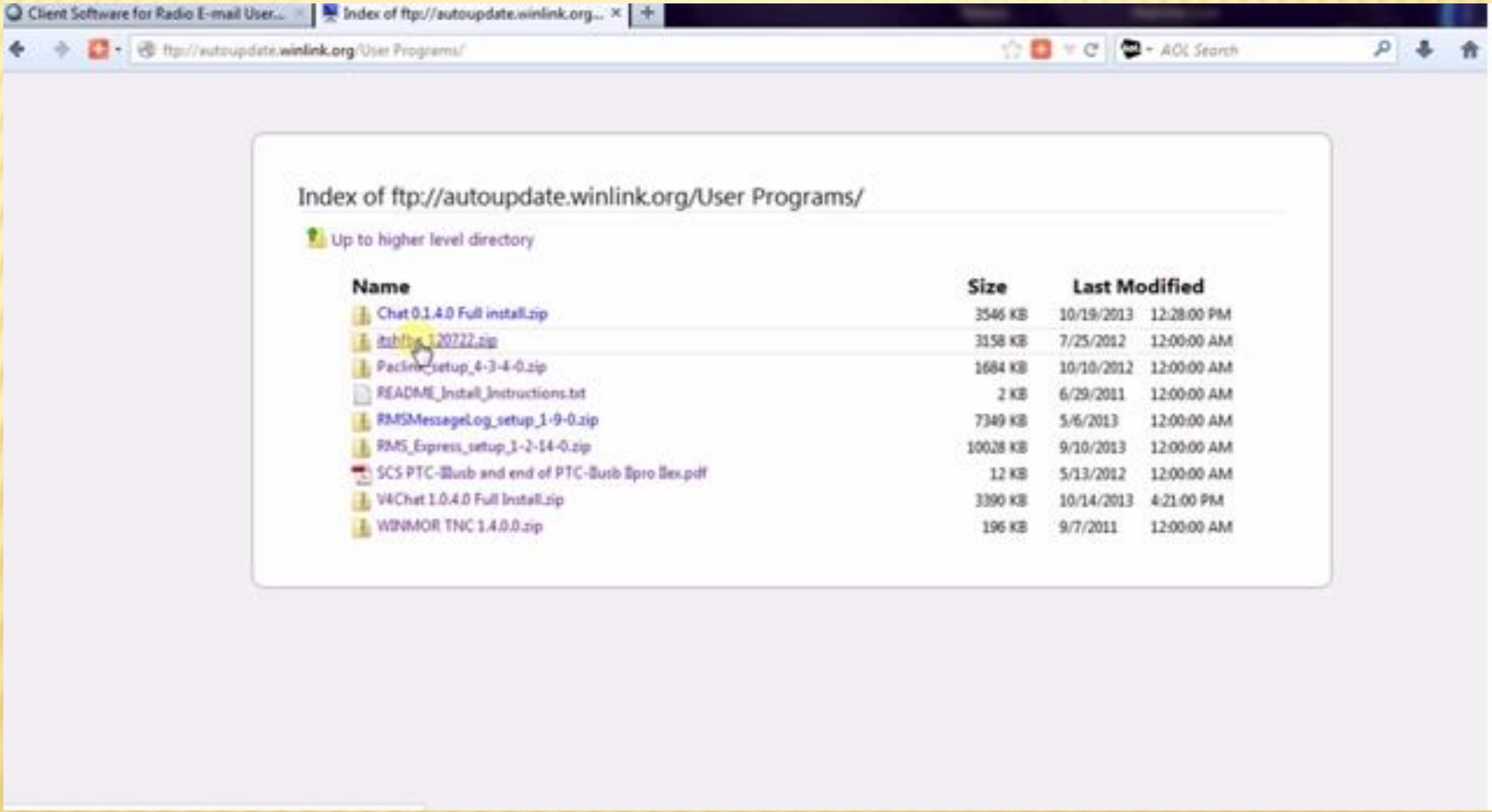
SELECT USER PROGRAMS



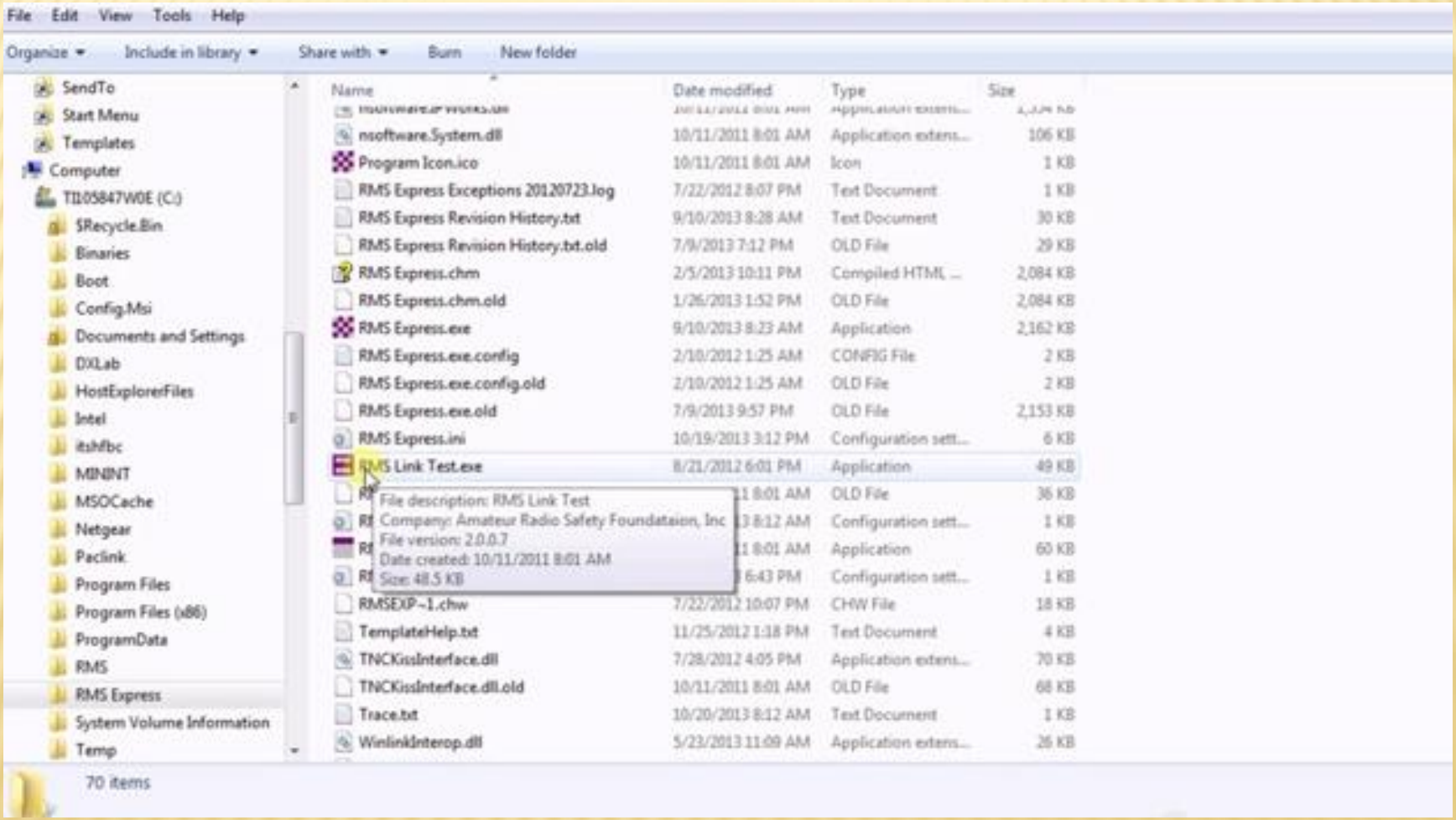
SELECT RMS EXPRESS SETUP…ZIP



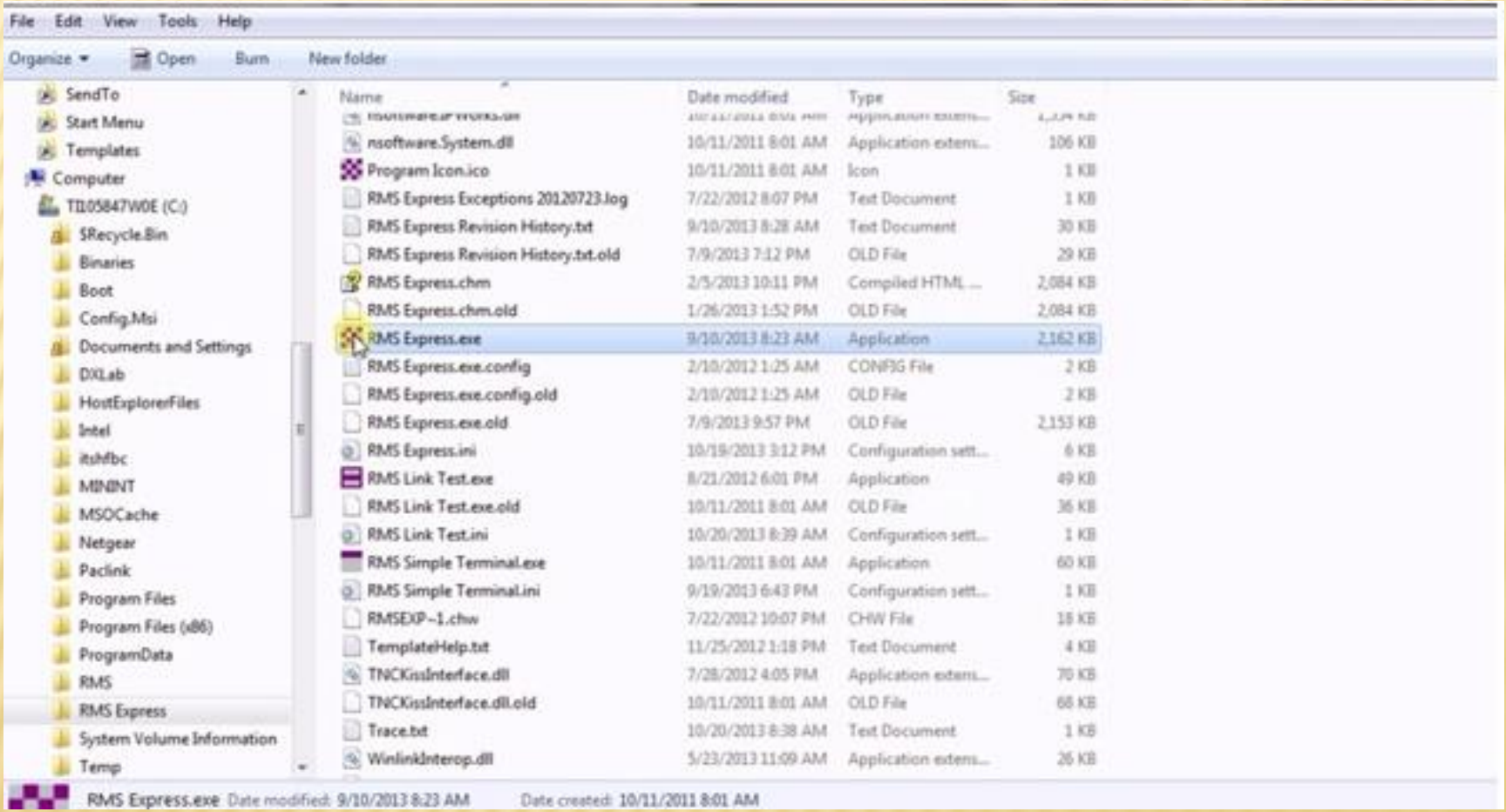
ITSHFBC...ZIP


Client Software for Radio E-mail User...
Index of ftp://autoupdate.winlink.org...
ftp://autoupdate.winlink.org/User Programs/
AOL Search
Index of ftp://autoupdate.winlink.org/User Programs/
Up to higher level directory
Name
Size
Last Modified
Chat 0.1.4.0 Full install.zip 3546 KB 10/19/2013 12:28:00 PM
itshfbc_120722.zip 3158 KB 7/25/2012 12:00:00 AM
Paclink-setup_4-3-4-0.zip 1684 KB 10/10/2012 12:00:00 AM
README_Install_Instructions.txt 2 KB 6/29/2011 12:00:00 AM
RMSMessageLog_setup_1-9-0.zip 7349 KB 5/6/2013 12:00:00 AM
RMS_Express_setup_1-2-14-0.zip 10028 KB 9/10/2013 12:00:00 AM
SCS PTC-IIusb and end of PTC-IIusb IIpro IIex.pdf 12 KB 5/13/2012 12:00:00 AM
V4Chat 1.0.4.0 Full Install.zip 3390 KB 10/14/2013 4:21:00 PM
WINMOR TNC 1.4.0.0.zip 196 KB 9/7/2011 12:00:00 AM

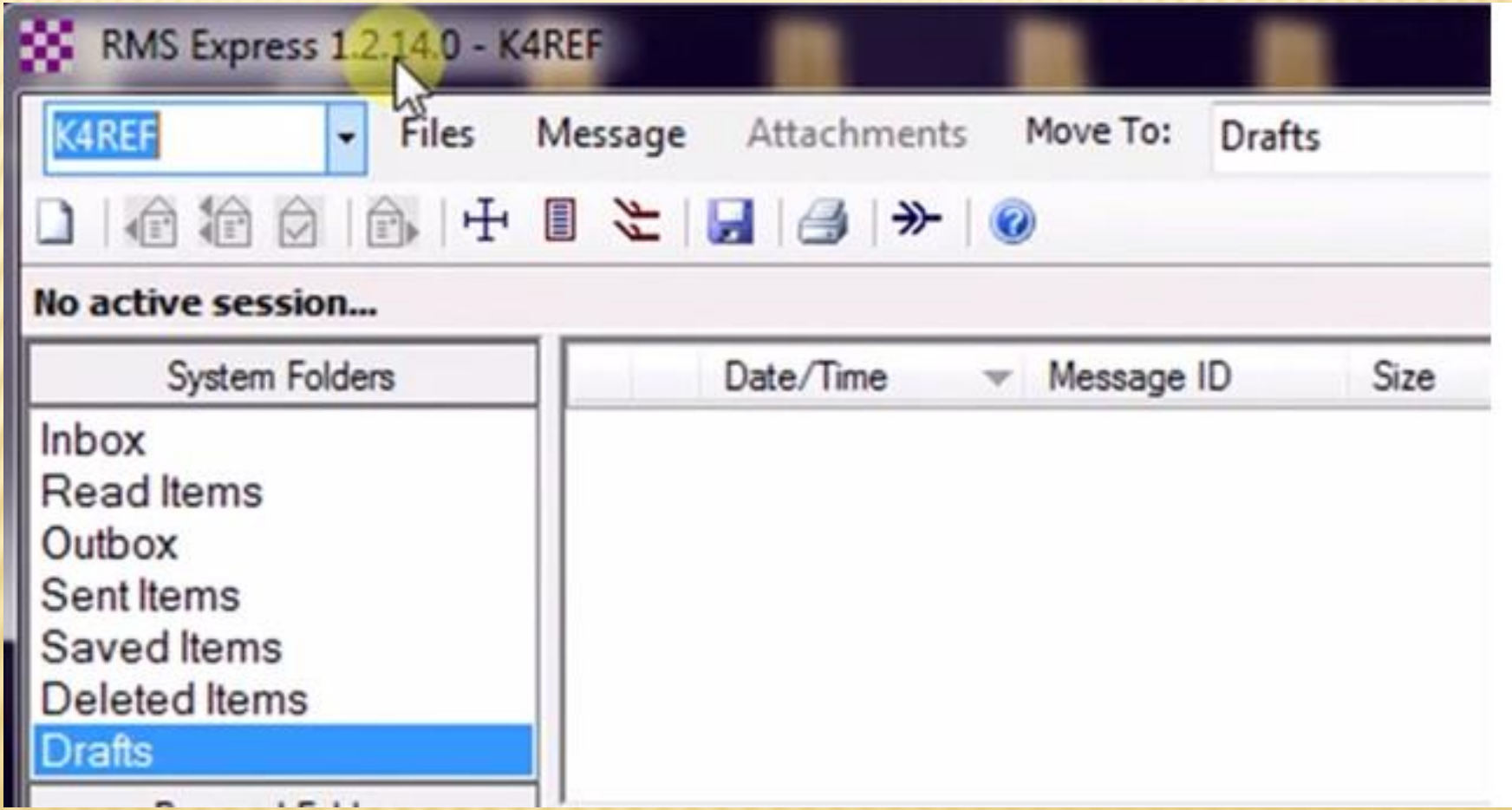
RMS LINK TEST.EXE



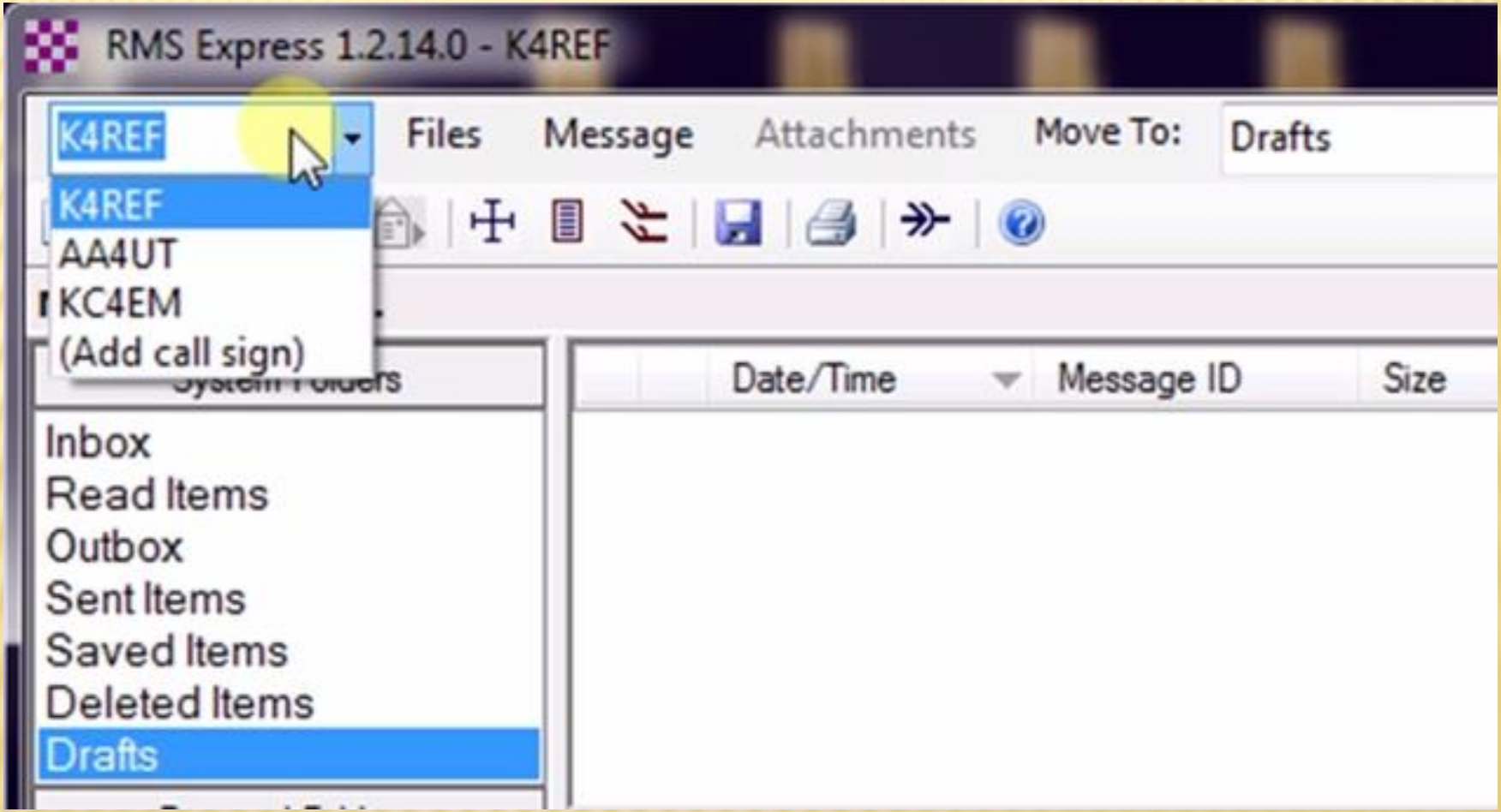
RUN RMS EXPRESS.EXE



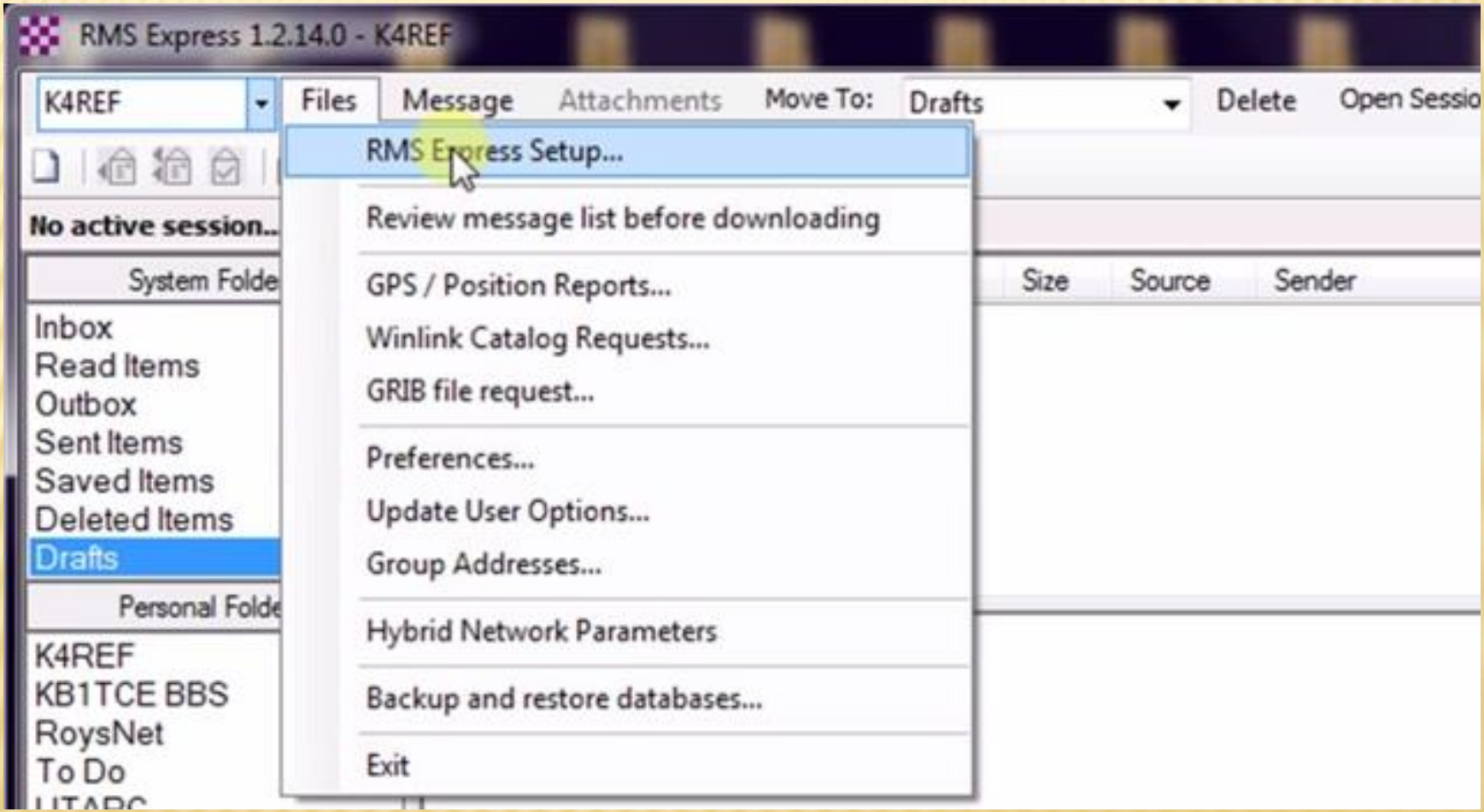
CHECK FOR VERSION



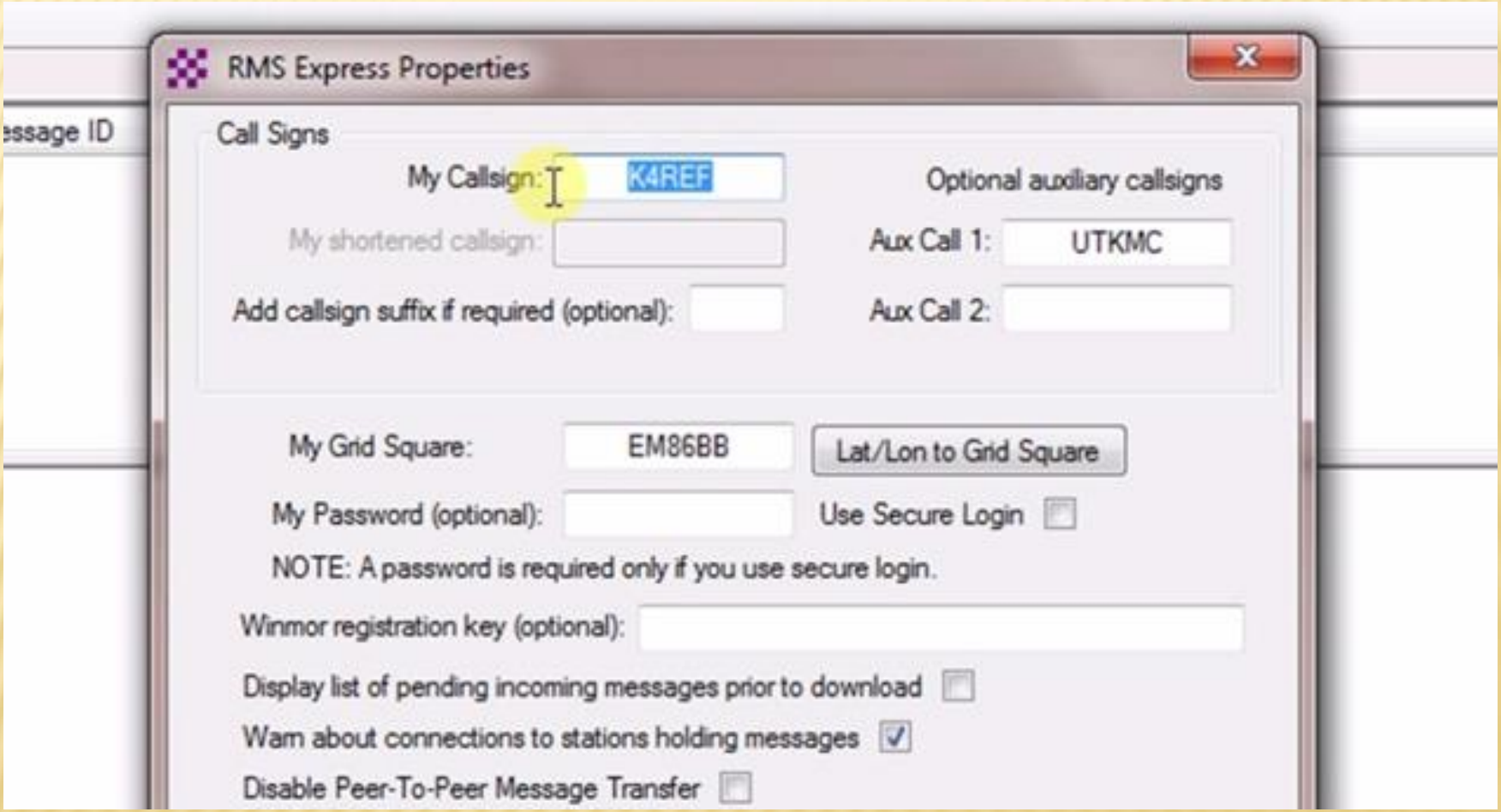
CALLSIGN


RMS Express 1.2.14.0 - K4REF
K4REF
Files
Message
Attachments
Move To:
Drafts
K4REF
AA4UT
KC4EM
(Add call sign)
Date/Time
Message ID
Size
Inbox
Read Items
Outbox
Sent Items
Saved Items
Deleted Items
Drafts

FILE


RMS Express 1.2.14.0 - K4REF
K4REF
Files
Message
Attachments
Move To:
Drafts
Delete
Open Sessio
RMS Express Setup...
Review message list before downloading
GPS / Position Reports...
Winlink Catalog Requests...
GRIB file request...
Preferences...
Update User Options...
Group Addresses...
Hybrid Network Parameters
Backup and restore databases...
Exit
No active session...
System Folde
Inbox
Read Items
Outbox
Sent Items
Saved Items
Deleted Items
Drafts
Personal Folde
K4REF
KB1TCE BBS
RoysNet
To Do
Size
Source
Sender

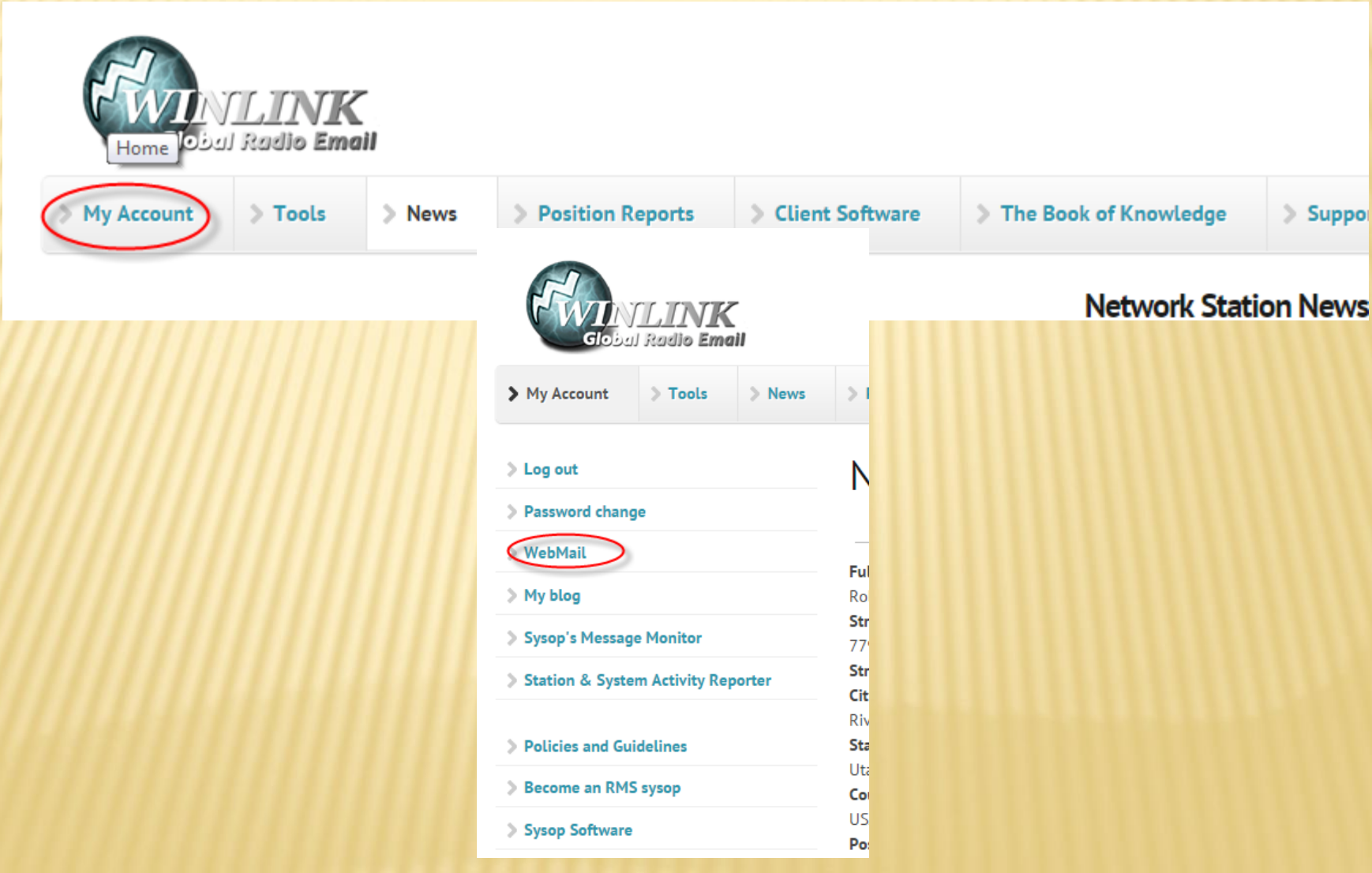
PROPERTIES


RMS Express Properties
Call Signs
My Callsign:
K4REF
Optional auxiliary callsigns
My shortened callsign:
Aux Call 1:
UTKMC
Add callsign suffix if required (optional):
Aux Call 2:
My Grid Square:
EM86BB
Lat/Lon to Grid Square
My Password (optional):
Use Secure Login
NOTE: A password is required only if you use secure login.
Winmor registration key (optional):
Display list of pending incoming messages prior to download
Warn about connections to stations holding messages
Disable Peer-To-Peer Message Transfer

PASSWORD

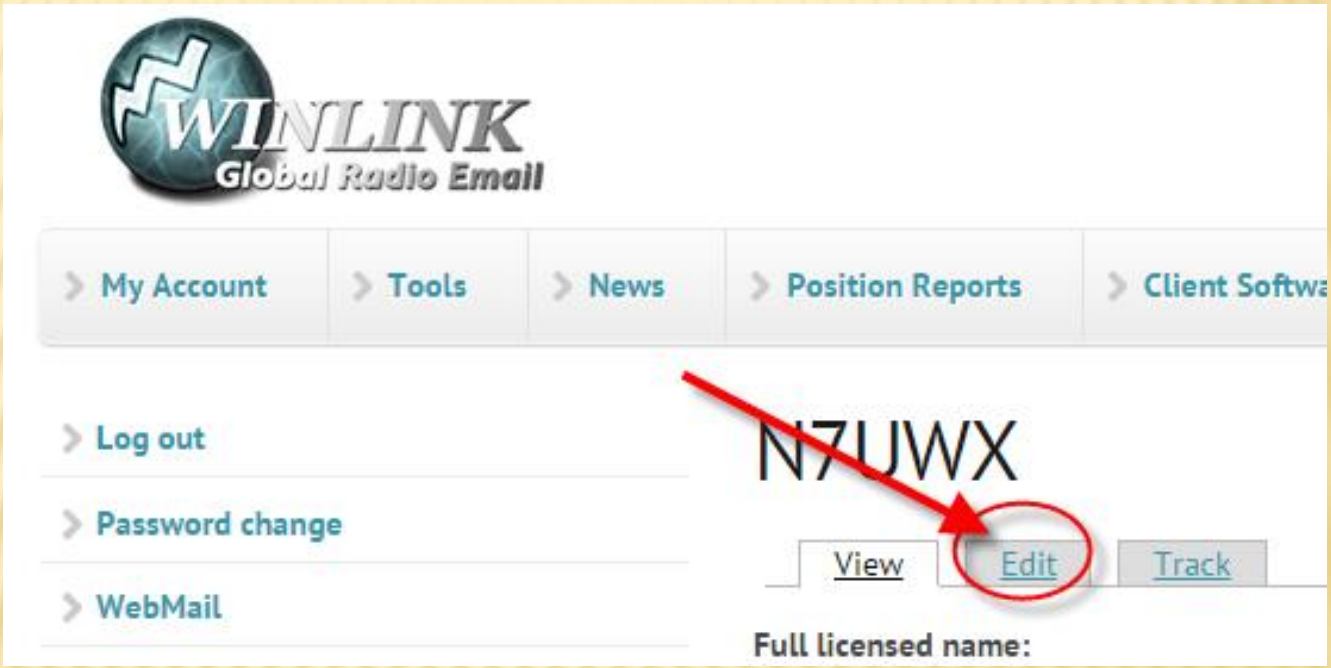
My Grid Square:
EM86BB
Lat/Lon to Grid Square
My Password (optional):
Use Secure Login
NOTE: A password is required only if you use secure login.
Winmor registration key (optional):
Display list of pending incoming messages prior to download
Warn about connections to stations holding messages
Disable Peer-To-Peer Message Transfer
Path to propagation forecast program:
C:\vtshfbc\
Service Codes
PUBLIC
(Use PUBLIC for ham call signs. Separate multiple service codes by spaces.)

LOG INTO WEBMAIL TO GET PASSWORD

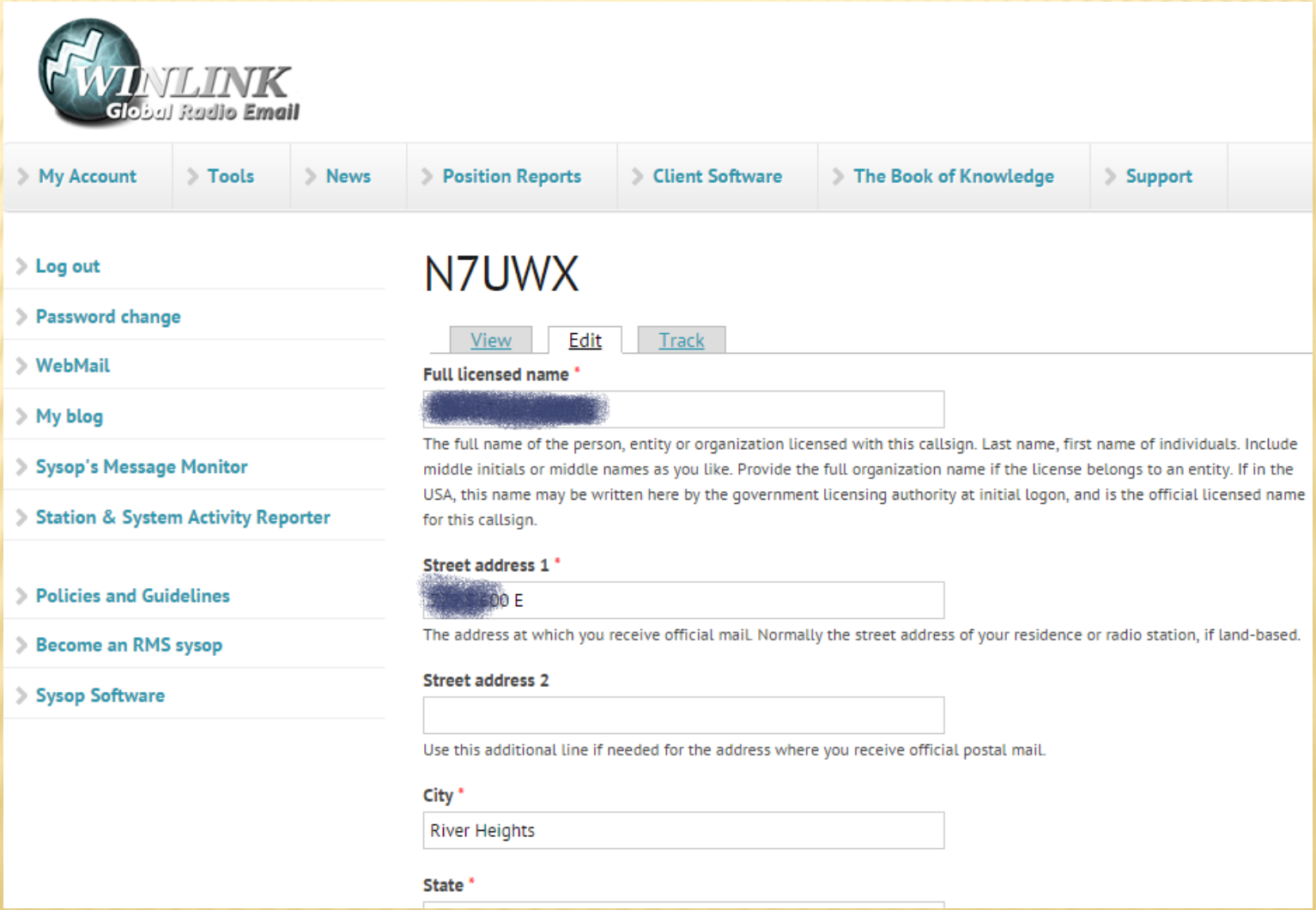


WEBMAIL LOGIN

USER SETTINGS

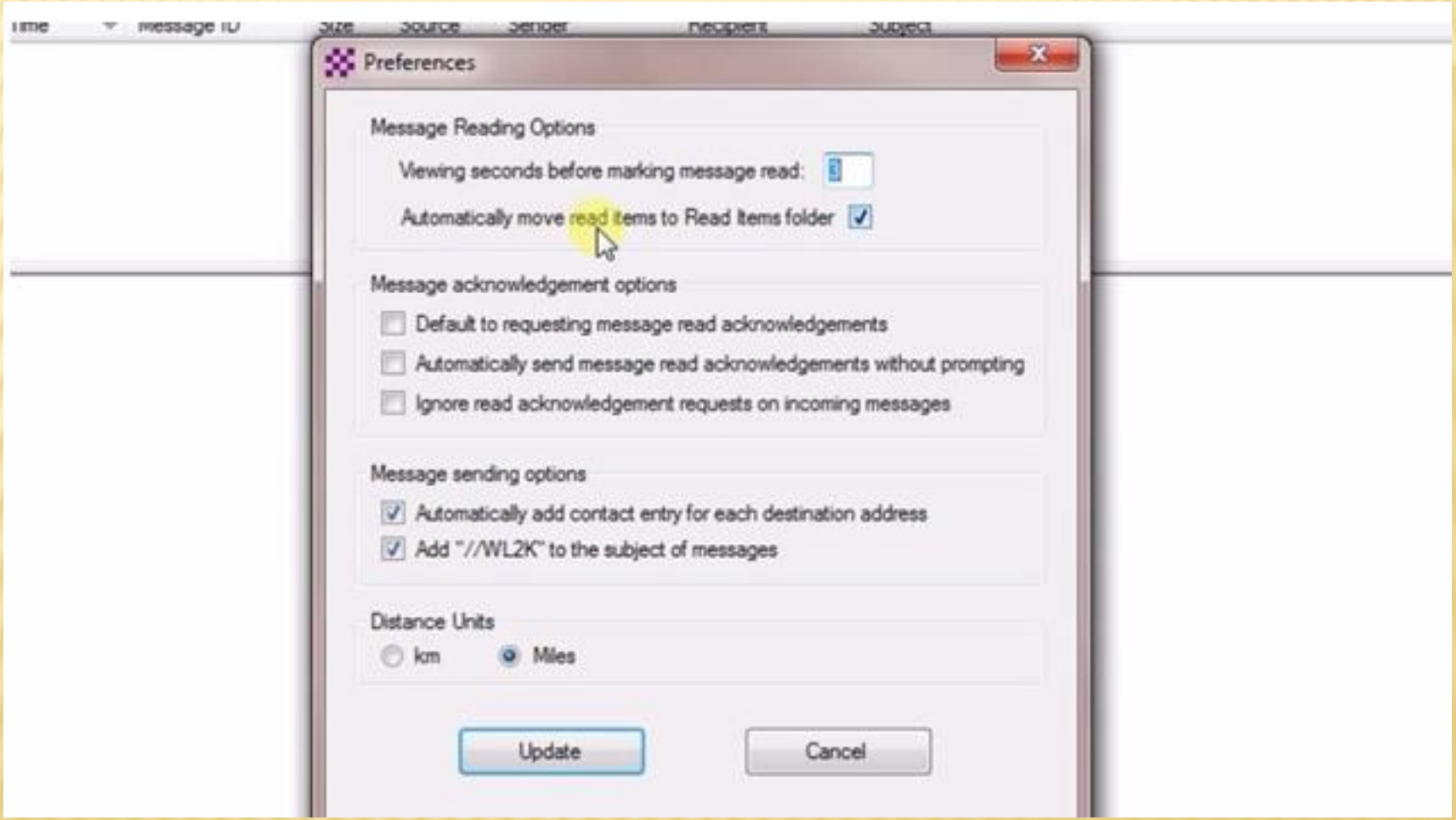


CHANGE OR ADD USER SETTINGS

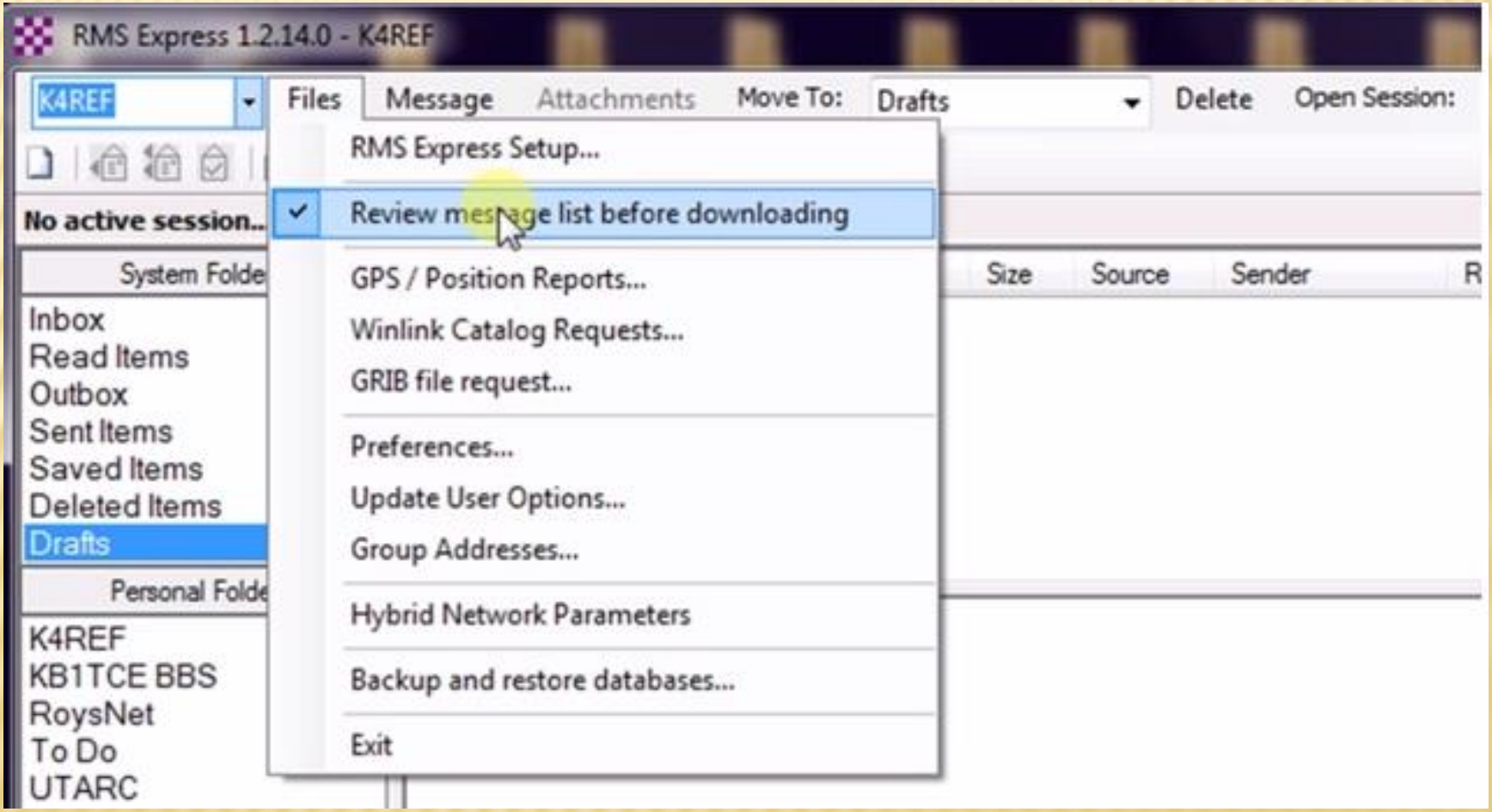


BACK TO WINLINK

PREFERENCES

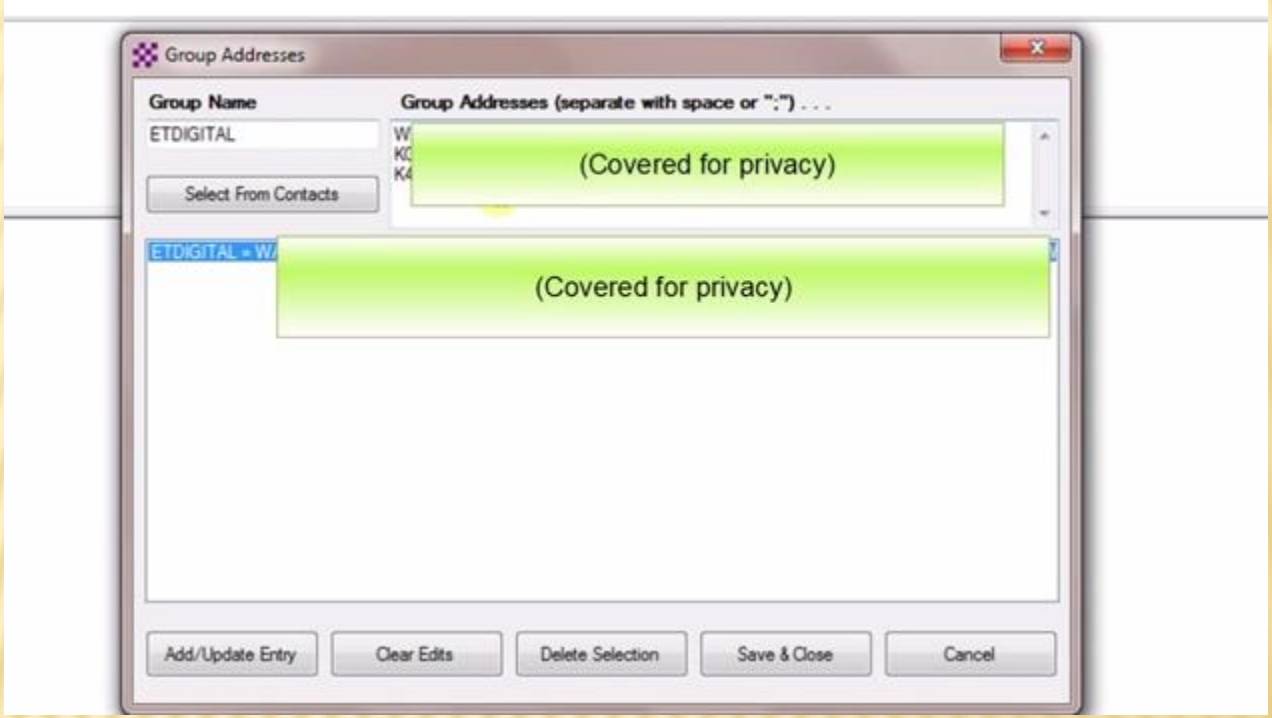


FILE MENU

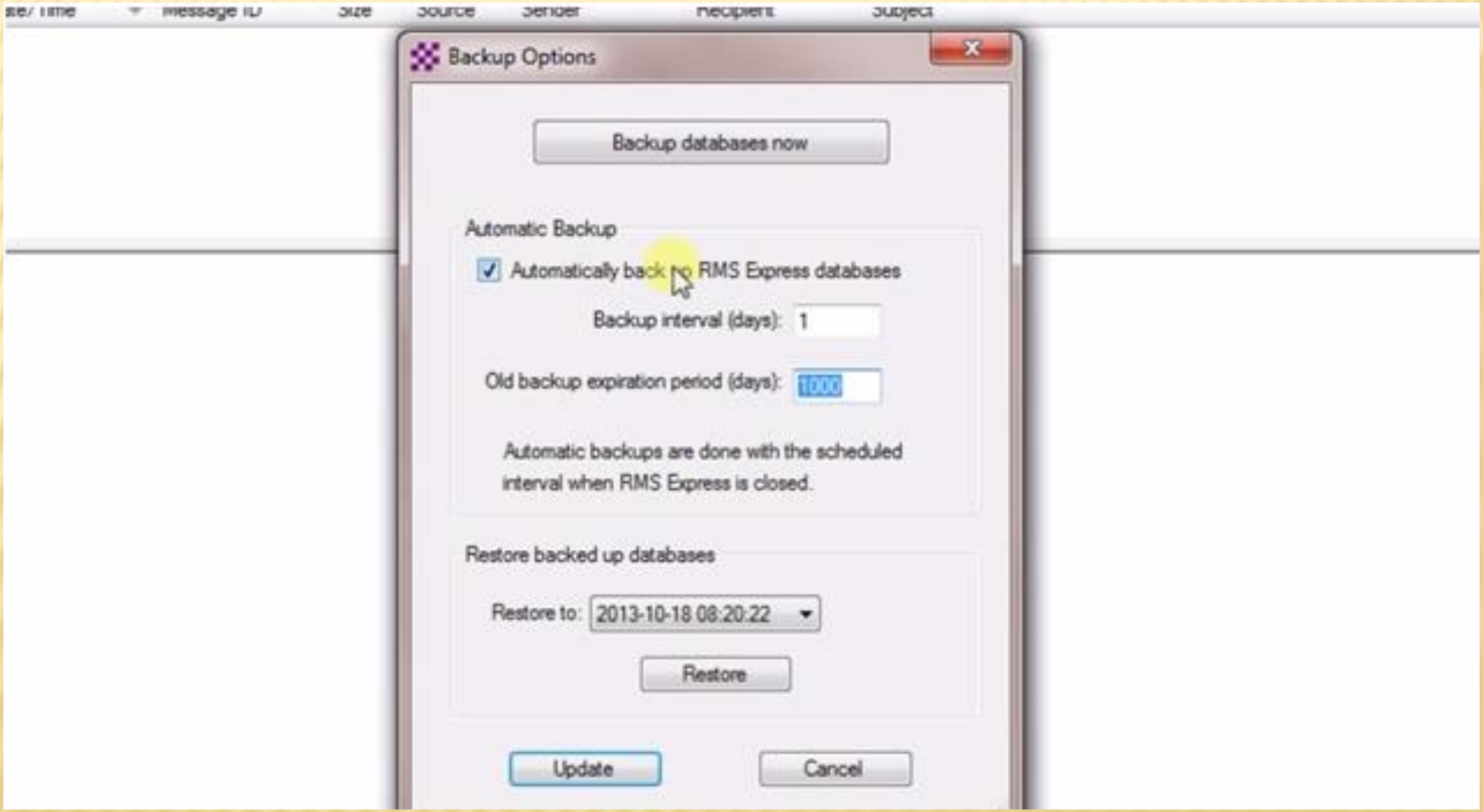

RMS Express 1.2.14.0 - K4REF
K4REF
Files
Message
Attachments
Move To:
Drafts
Delete
Open Session:
RMS Express Setup...
Review message list before downloading
GPS / Position Reports...
Winlink Catalog Requests...
GRIB file request...
Preferences...
Update User Options...
Group Addresses...
Hybrid Network Parameters
Backup and restore databases...
Exit
No active session...
System Folde
Inbox
Read Items
Outbox
Sent Items
Saved Items
Deleted Items
Drafts
Personal Folde
K4REF
KB1TCE BBS
RoysNet
To Do
UTARC
Size
Source
Sender
R

USER OPTIONS

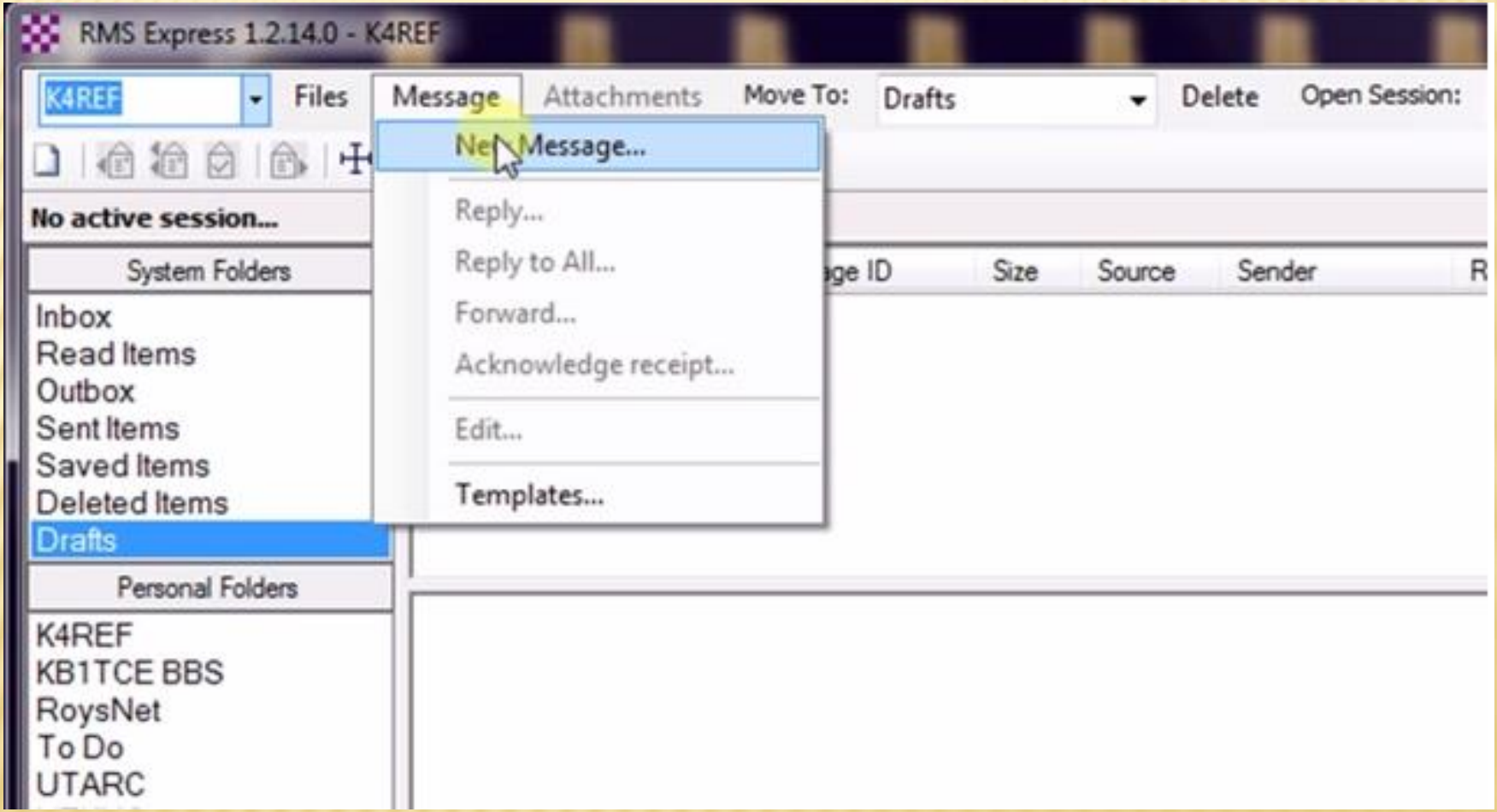
GROUP EMAIL ADDRESS



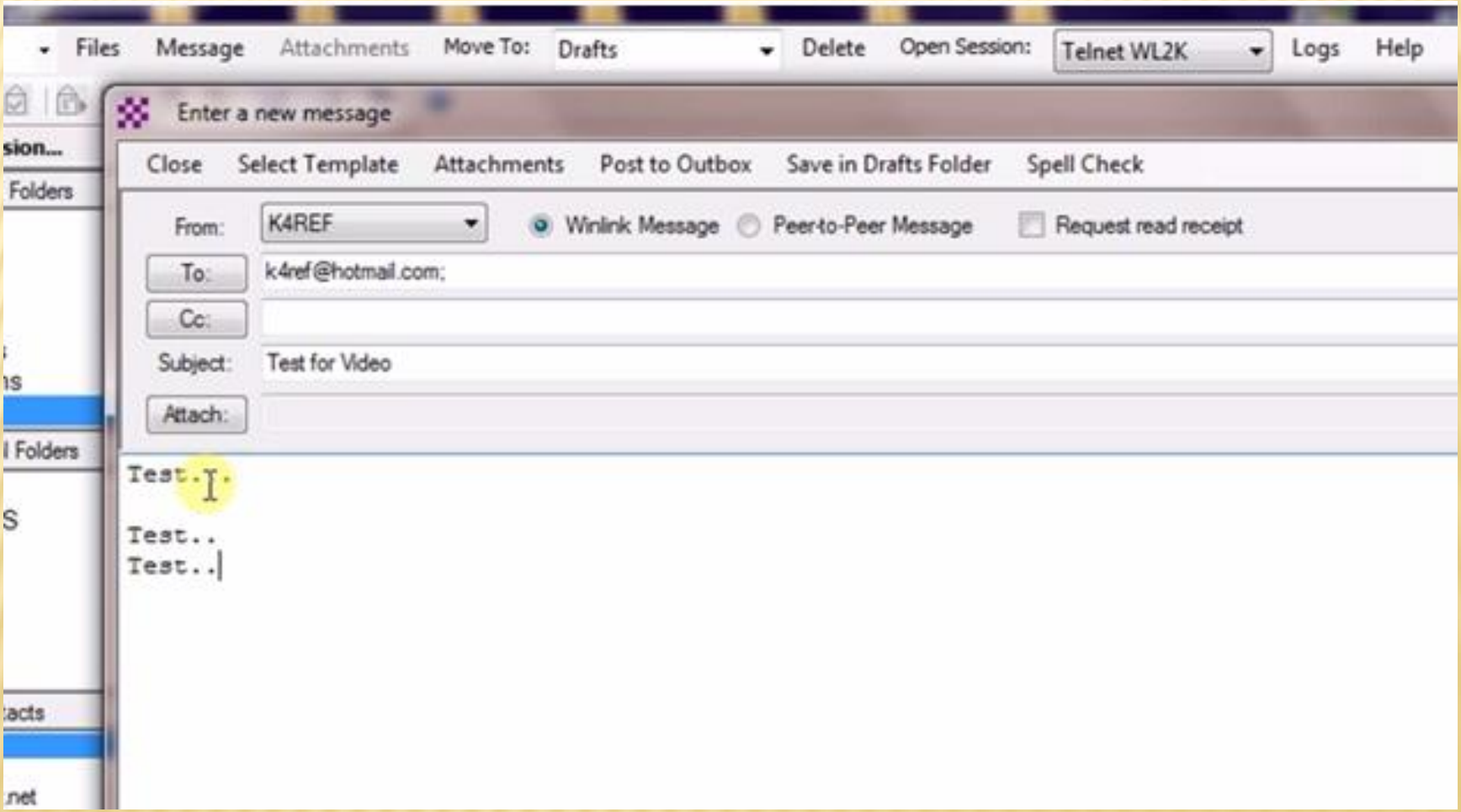
BACKUP OPTIONS



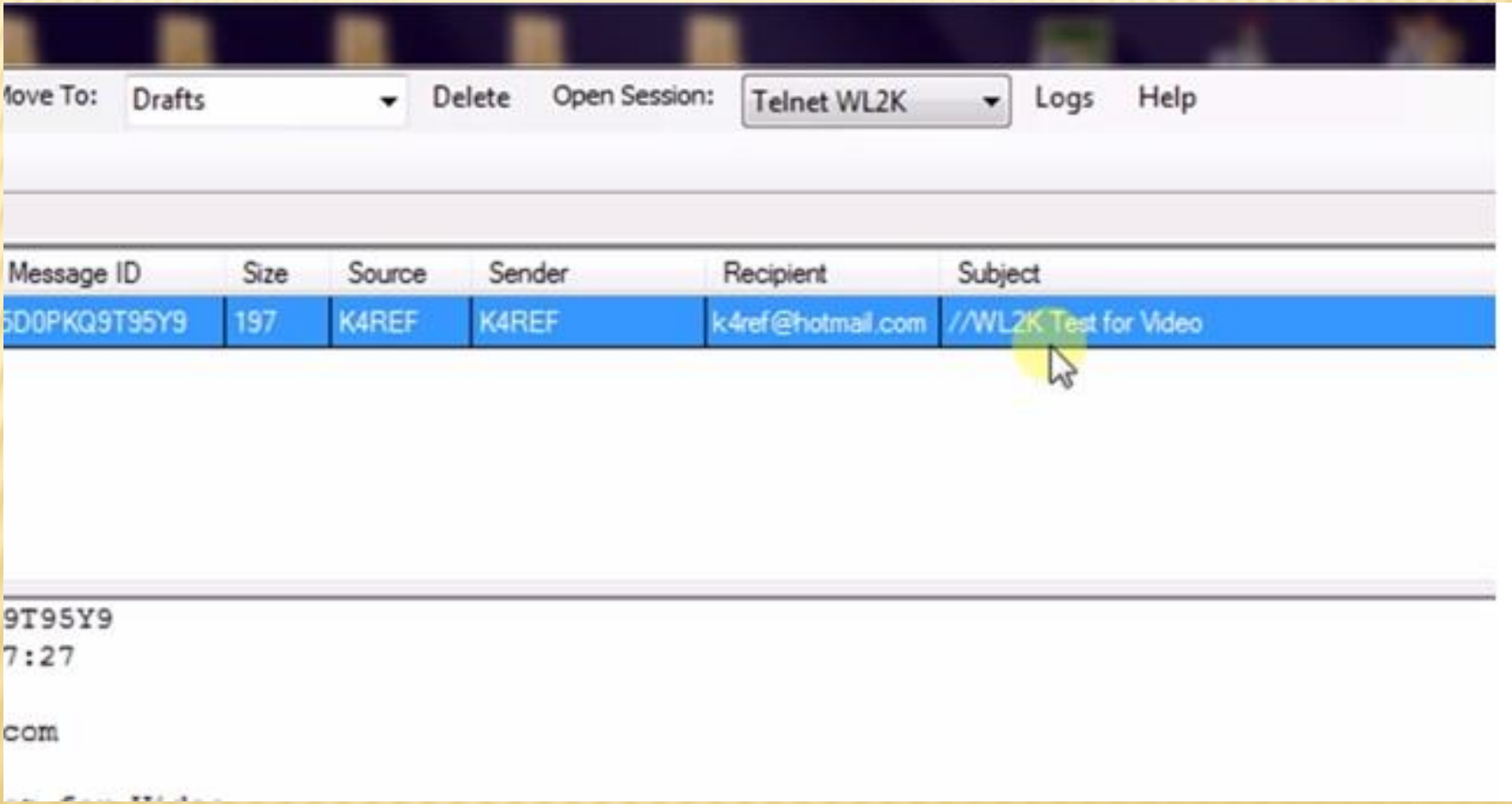
MESSAGE MENU

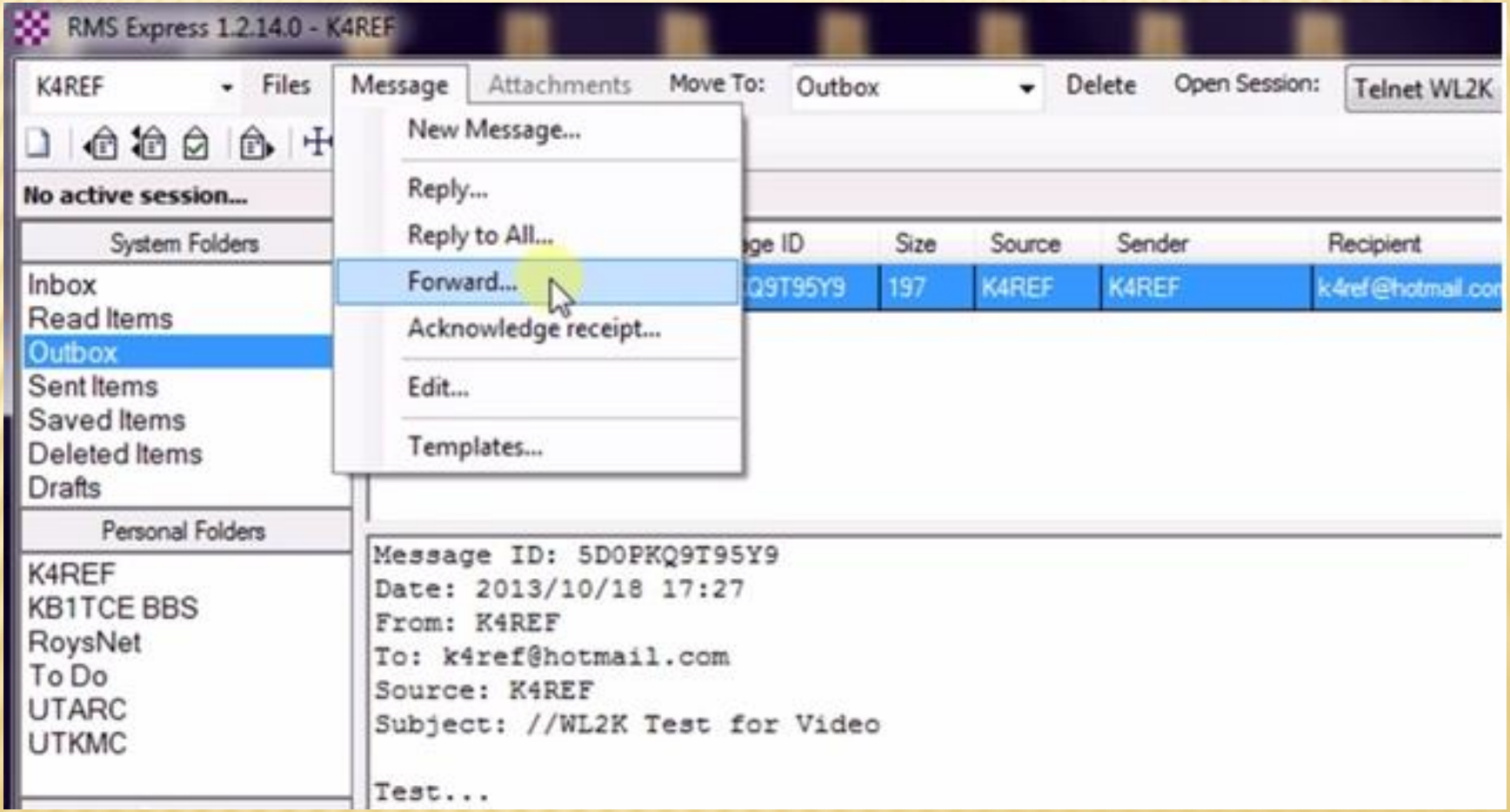


FIRST EMAIL

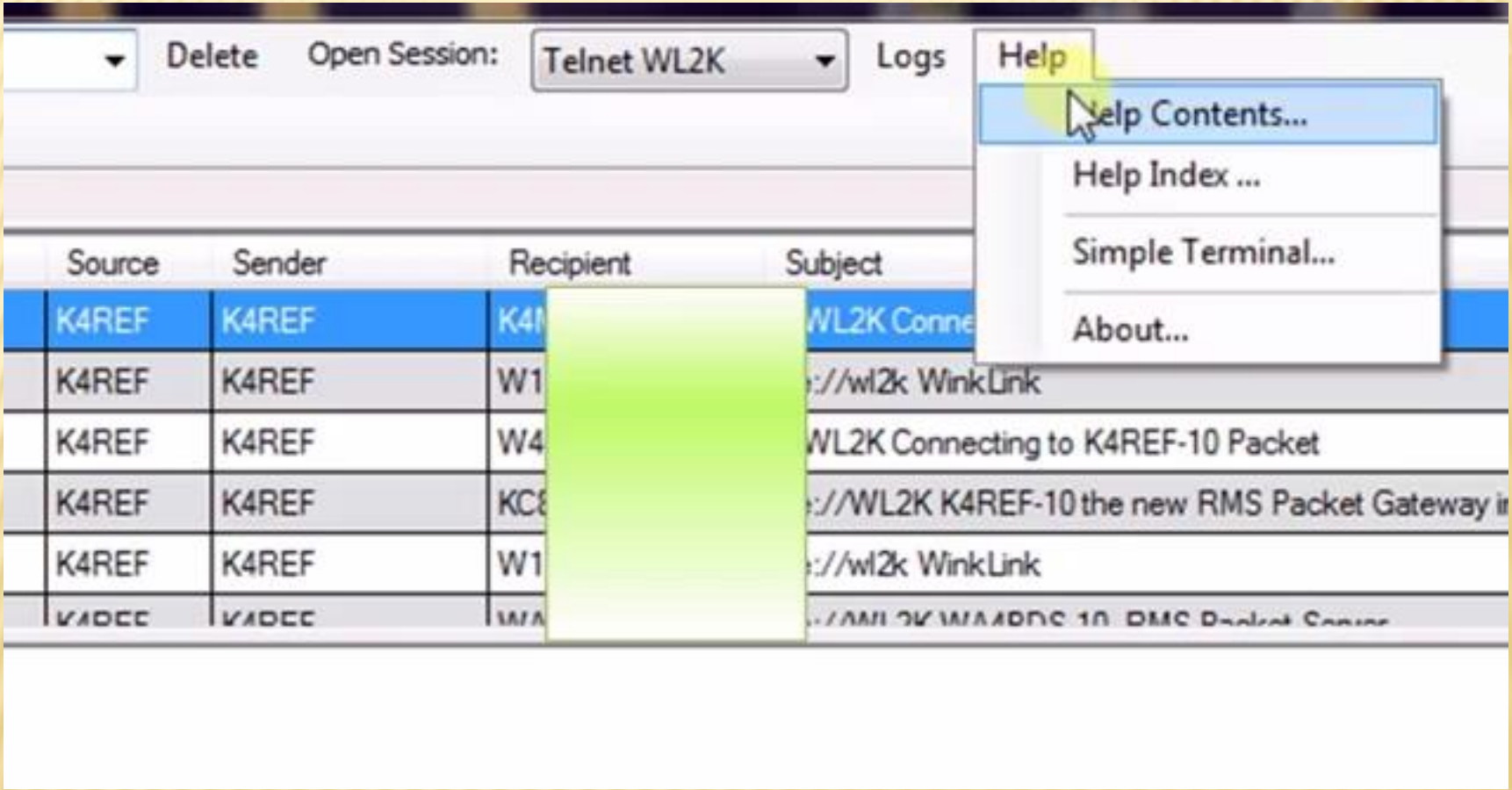

Files
Message
Attachments
Move To:
Drafts
Delete
Open Session:
Telnet WL2K
Logs
Help
Enter a new message
Close
Select Template
Attachments
Post to Outbox
Save in Drafts Folder
Spell Check
From:
K4REF
Winlink Message
Peer-to-Peer Message
Request read receipt
To:
k4ref@hotmail.com;
Cc:
Subject:
Test for Video
Attach:
Test..
Test..
Test..
Folders
Folders

SUBJECT STARTING WITH //WL2K

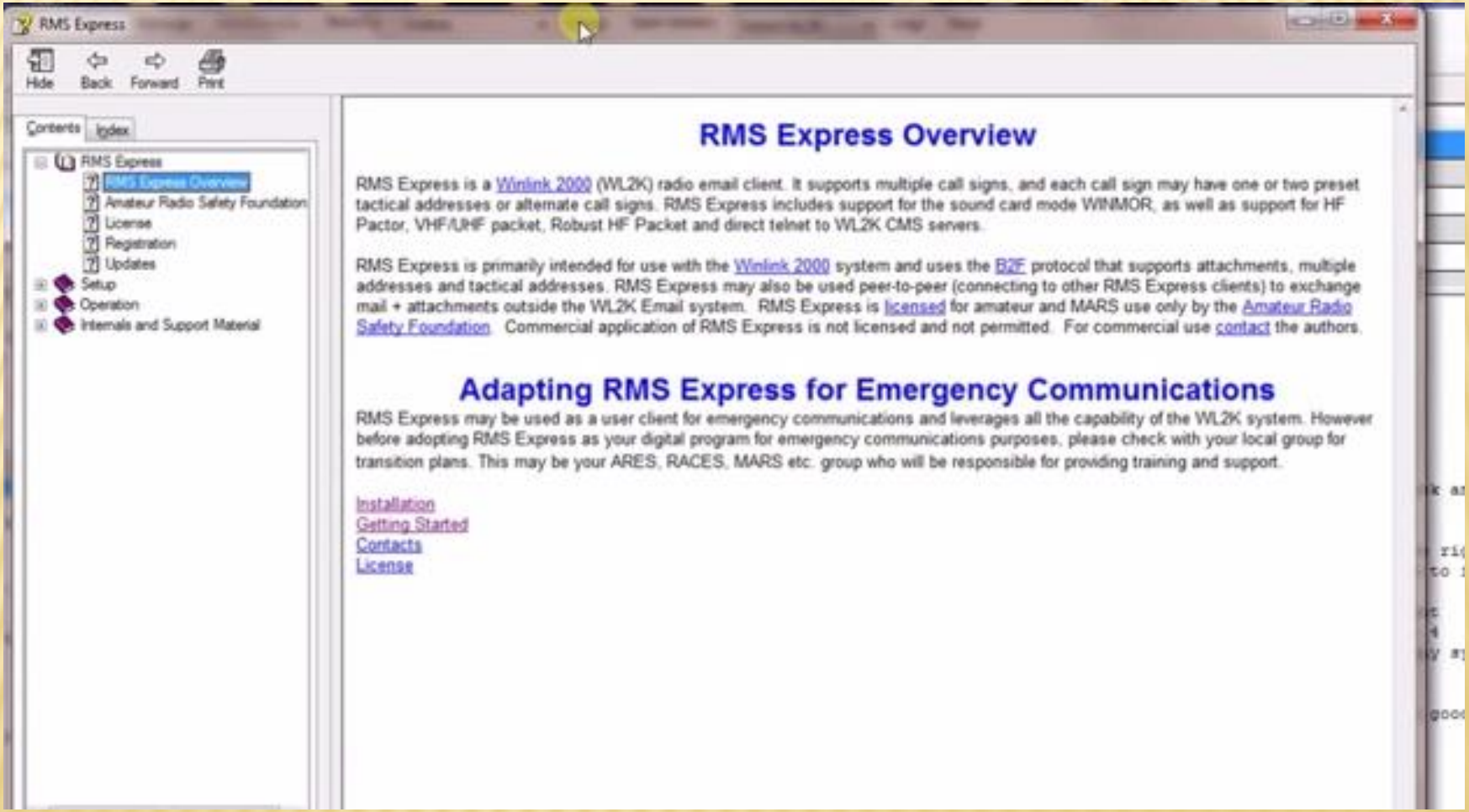



RMS Express 1.2.14.0 - K4REF
K4REF
Files
Message
Attachments
Move To:
Outbox
Delete
Open Session:
Telnet WL2K
No active session...
New Message...
Reply...
Reply to All...
Forward...
Acknowledge receipt...
Edit...
Templates...
System Folders
Inbox
Read Items
Outbox
Sent Items
Saved Items
Deleted Items
Drafts
Personal Folders
K4REF
KB1TCE BBS
RoysNet
To Do
UTARC
UTKMC
ge ID
Size
Source
Sender
Recipient
Q9T95Y9
197
K4REF
K4REF
k4ref@hotmail.com
Message ID: 5D0PKQ9T95Y9
Date: 2013/10/18 17:27
From: K4REF
To: k4ref@hotmail.com
Source: K4REF
Subject: //WL2K Test for Video
Test...

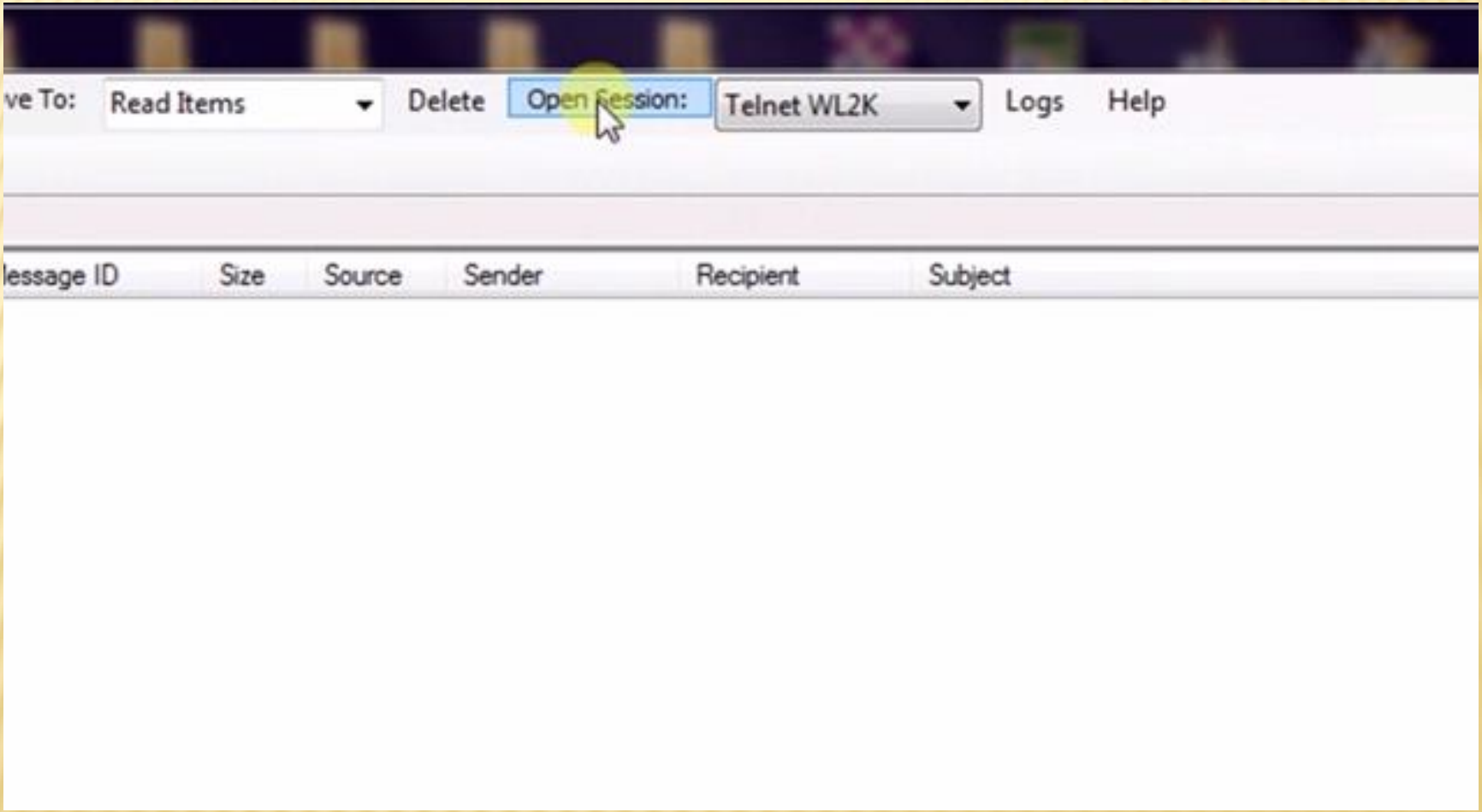
HELP


Delete
Open Session:
Telnet WL2K
Logs
Help
elp Contents...
Help Index ...
Simple Terminal...
About...
Source
Sender
Recipient
Subject
K4REF
K4REF
K4REF
K4REF
W1
://wl2k WinkLink
K4REF
K4REF
W4
WL2K Connecting to K4REF-10 Packet
K4REF
K4REF
KC8
://WL2K K4REF-10 the new RMS Packet Gateway
K4REF
K4REF
W1
://wl2k WinkLink

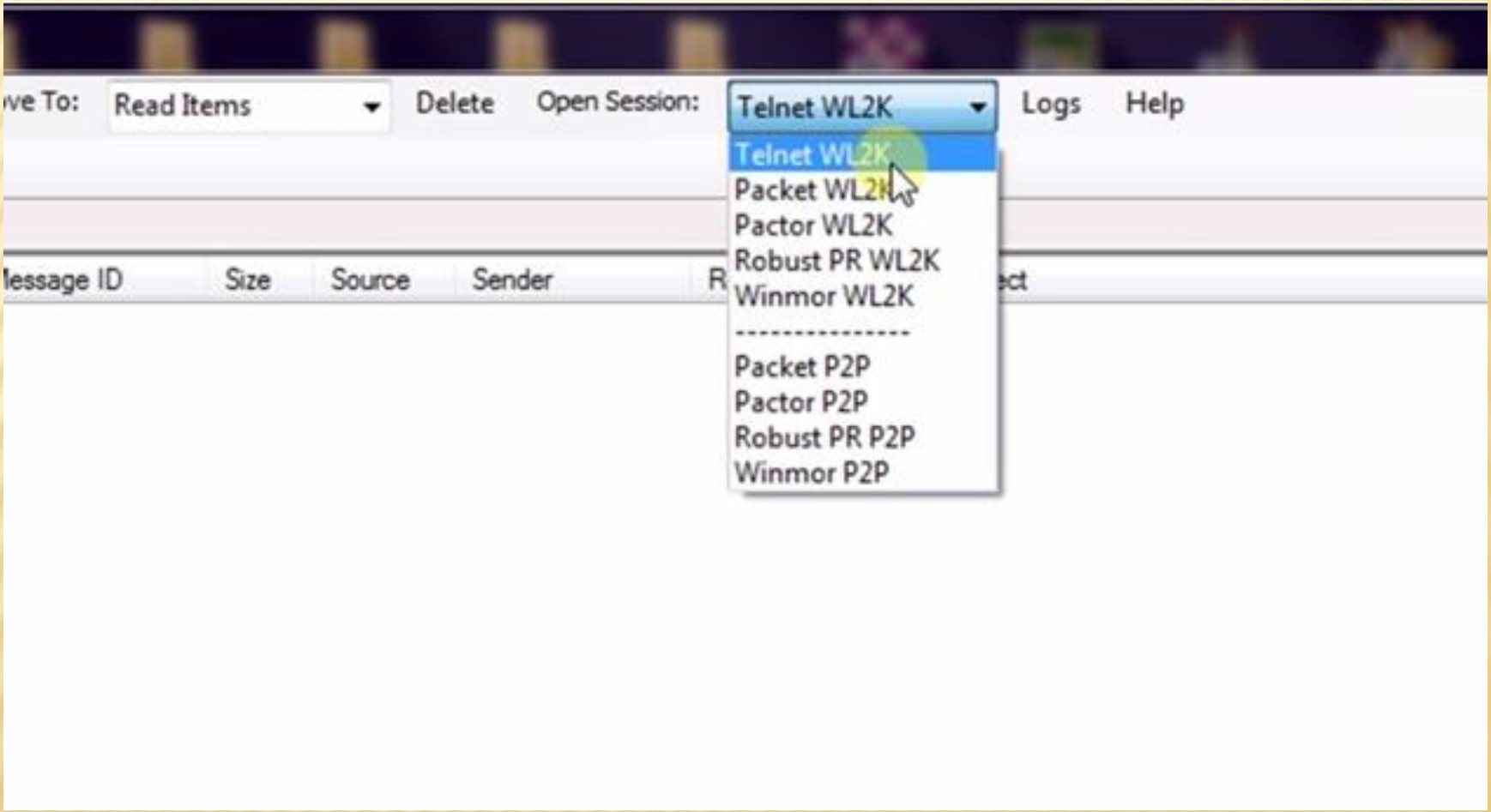
RMS HELP


RMS Express
Hide
Back
Forward
Print
Contents
Index
RMS Express
RMS Express Overview
Amateur Radio Safety Foundation
License
Registration
Updates
Setup
Operation
Internals and Support Material
RMS Express Overview
RMS Express is a Winlink 2000 (WL2K) radio email client. It supports multiple call signs, and each call sign may have one or two preset tactical addresses or alternate call signs. RMS Express includes support for the sound card mode WINMOR, as well as support for HF Pactor, VHF/UHF packet, Robust HF Packet and direct telnet to WL2K CMS servers.
RMS Express is primarily intended for use with the Winlink 2000 system and uses the B2F protocol that supports attachments, multiple addresses and tactical addresses. RMS Express may also be used peer-to-peer (connecting to other RMS Express clients) to exchange mail + attachments outside the WL2K Email system. RMS Express is licensed for amateur and MARS use only by the Amateur Radio Safety Foundation. Commercial application of RMS Express is not licensed and not permitted. For commercial use contact the authors.
Adapting RMS Express for Emergency Communications
RMS Express may be used as a user client for emergency communications and leverages all the capability of the WL2K system. However before adopting RMS Express as your digital program for emergency communications purposes, please check with your local group for transition plans. This may be your ARES, RACES, MARS etc. group who will be responsible for providing training and support.
Installation
Getting Started
Contacts
License

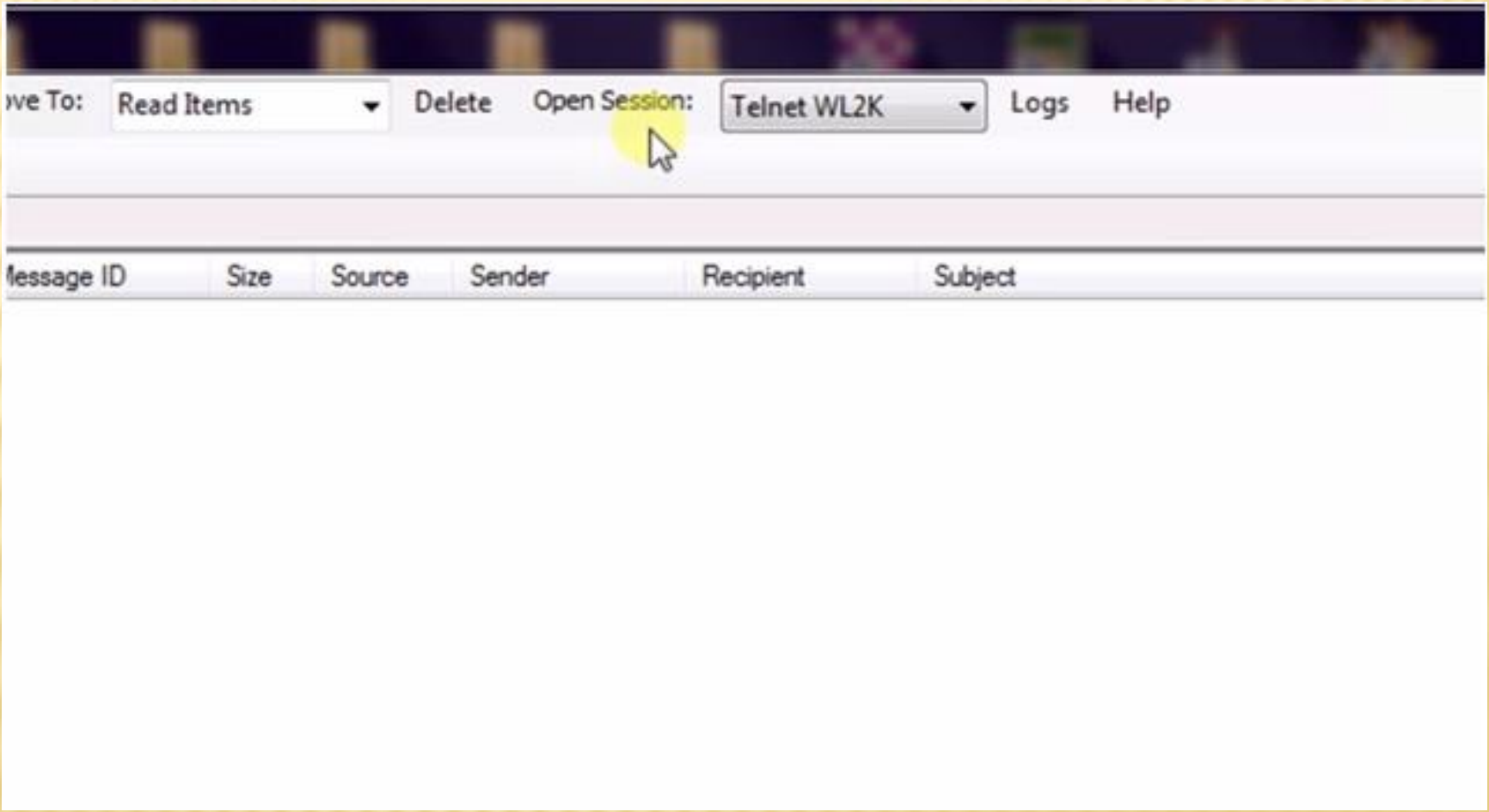
SELECT SESSION TYPE

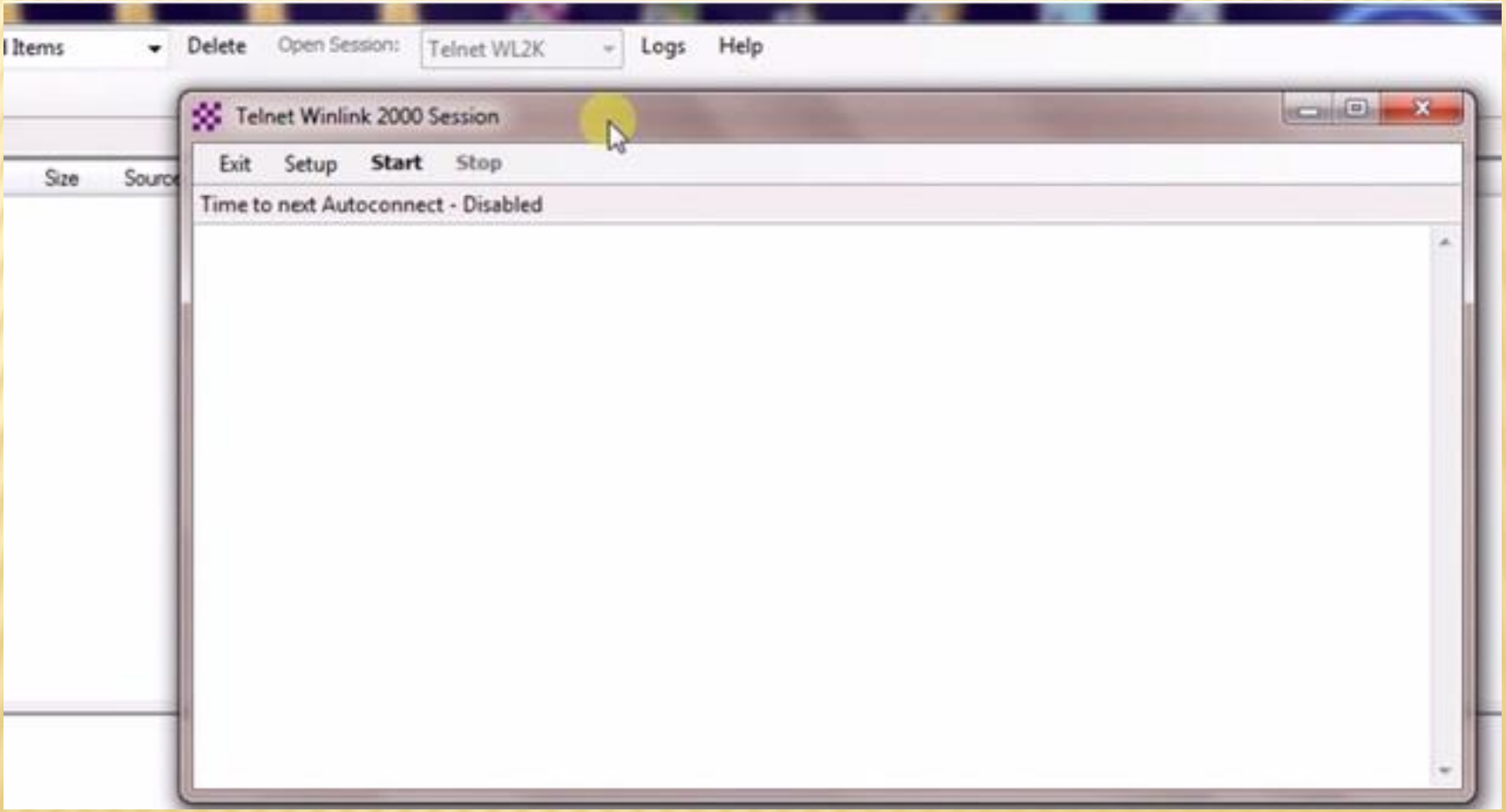


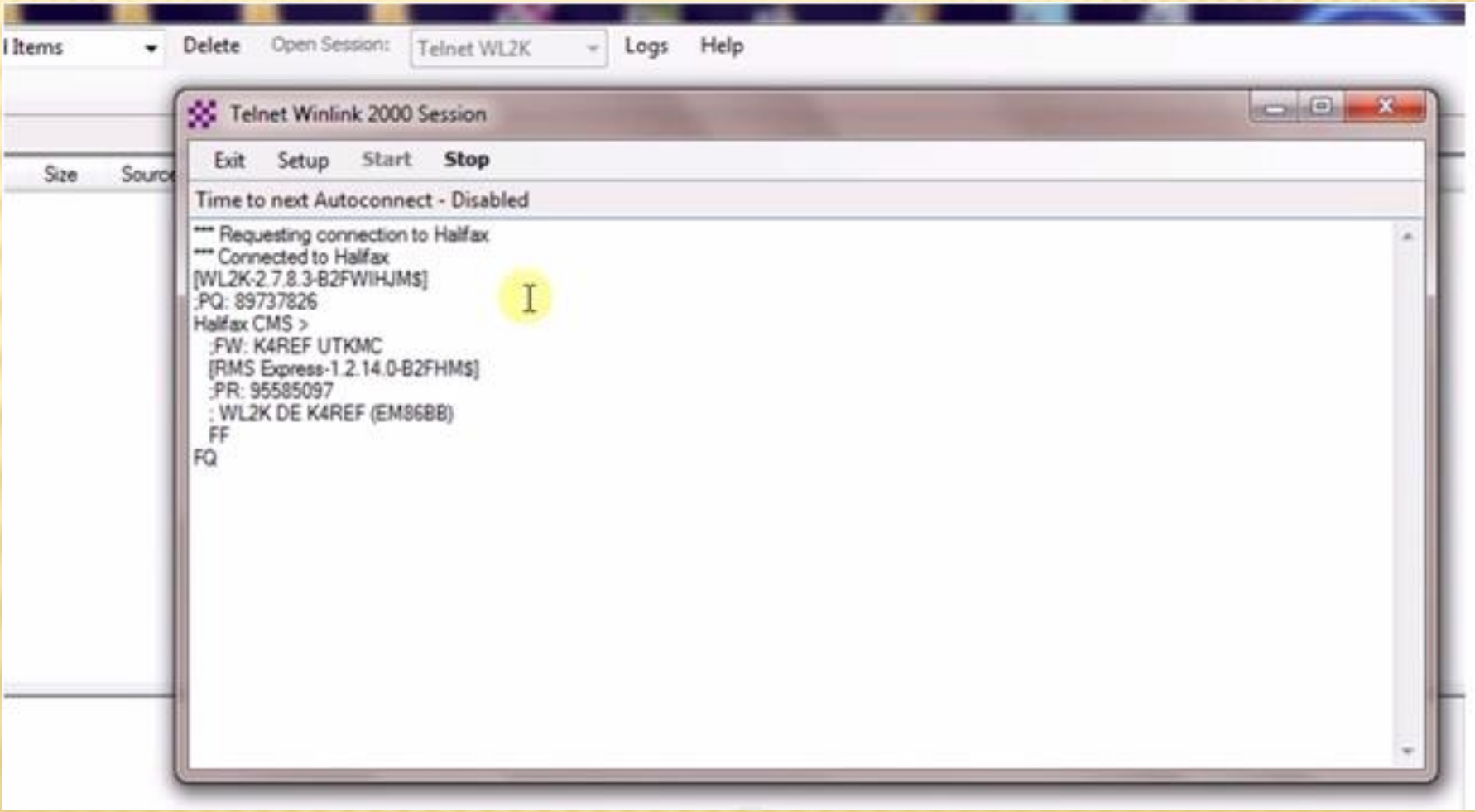
SELECT SESSION TYPE

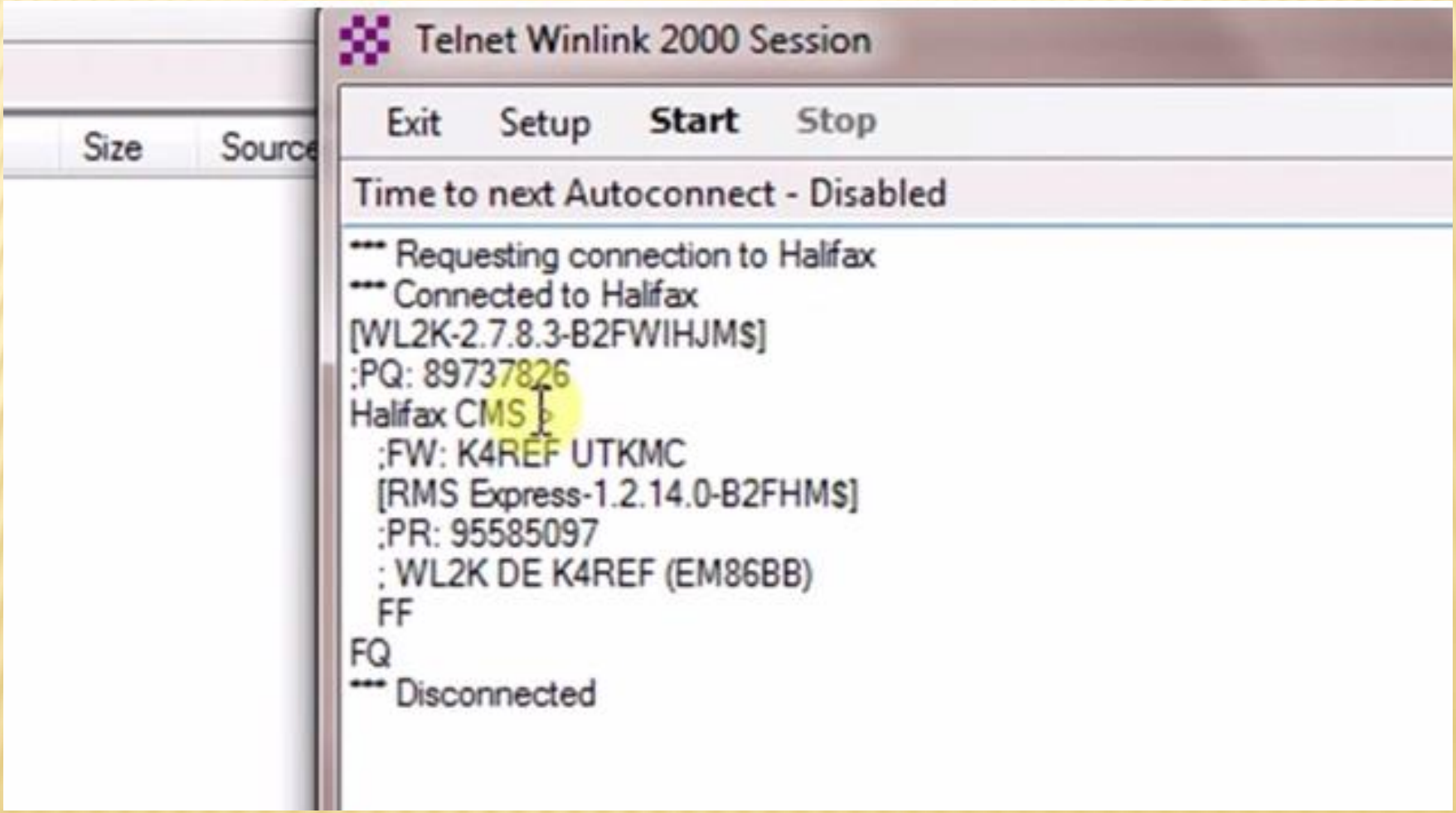


TELNET SESSION

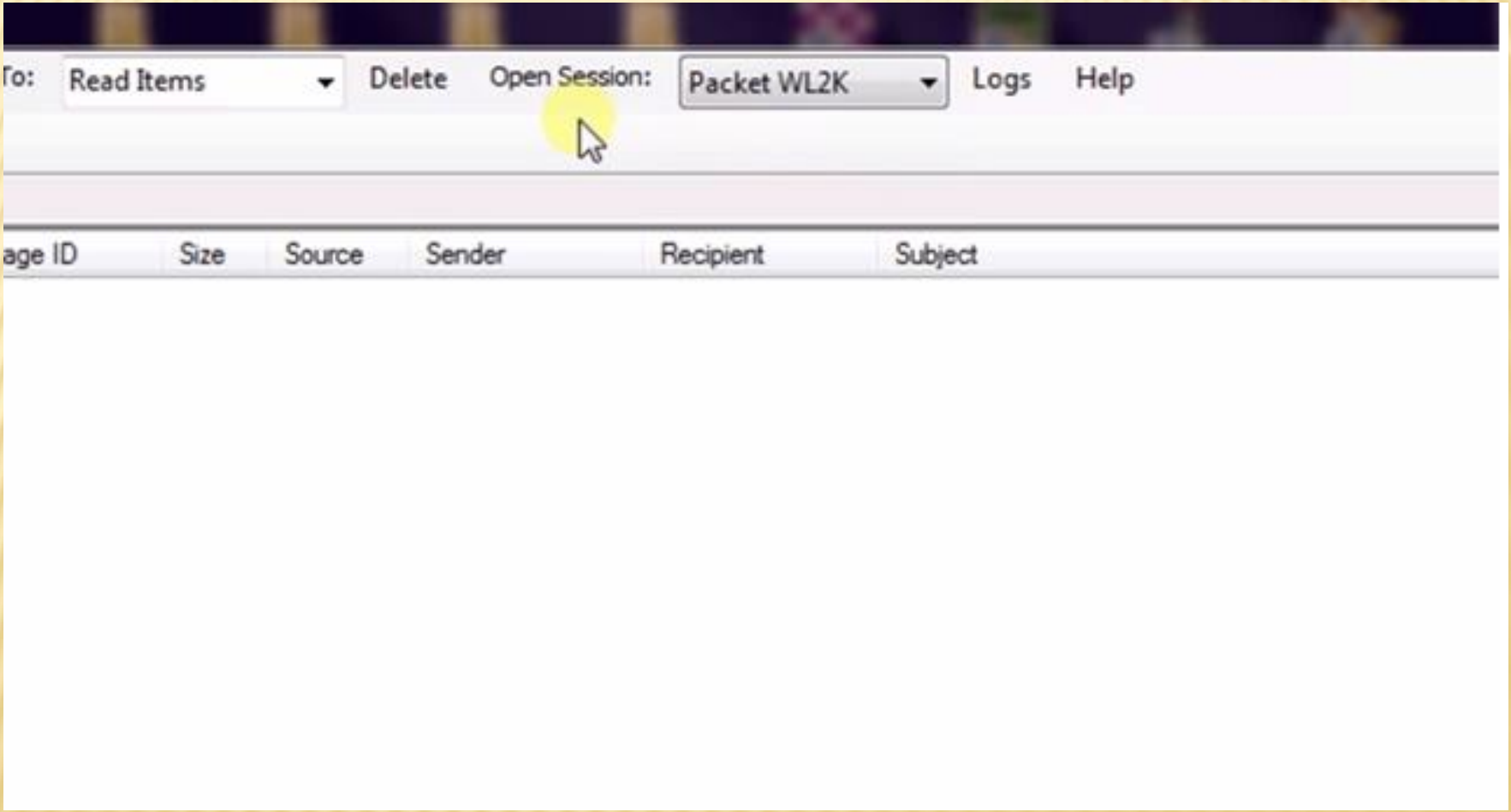



Items
Delete
Open Session:
Telnet WL2K
Logs
Help
Size
Telnet Winlink 2000 Session
Exit
Setup
Start
Stop
Time to next Autoconnect - Disabled

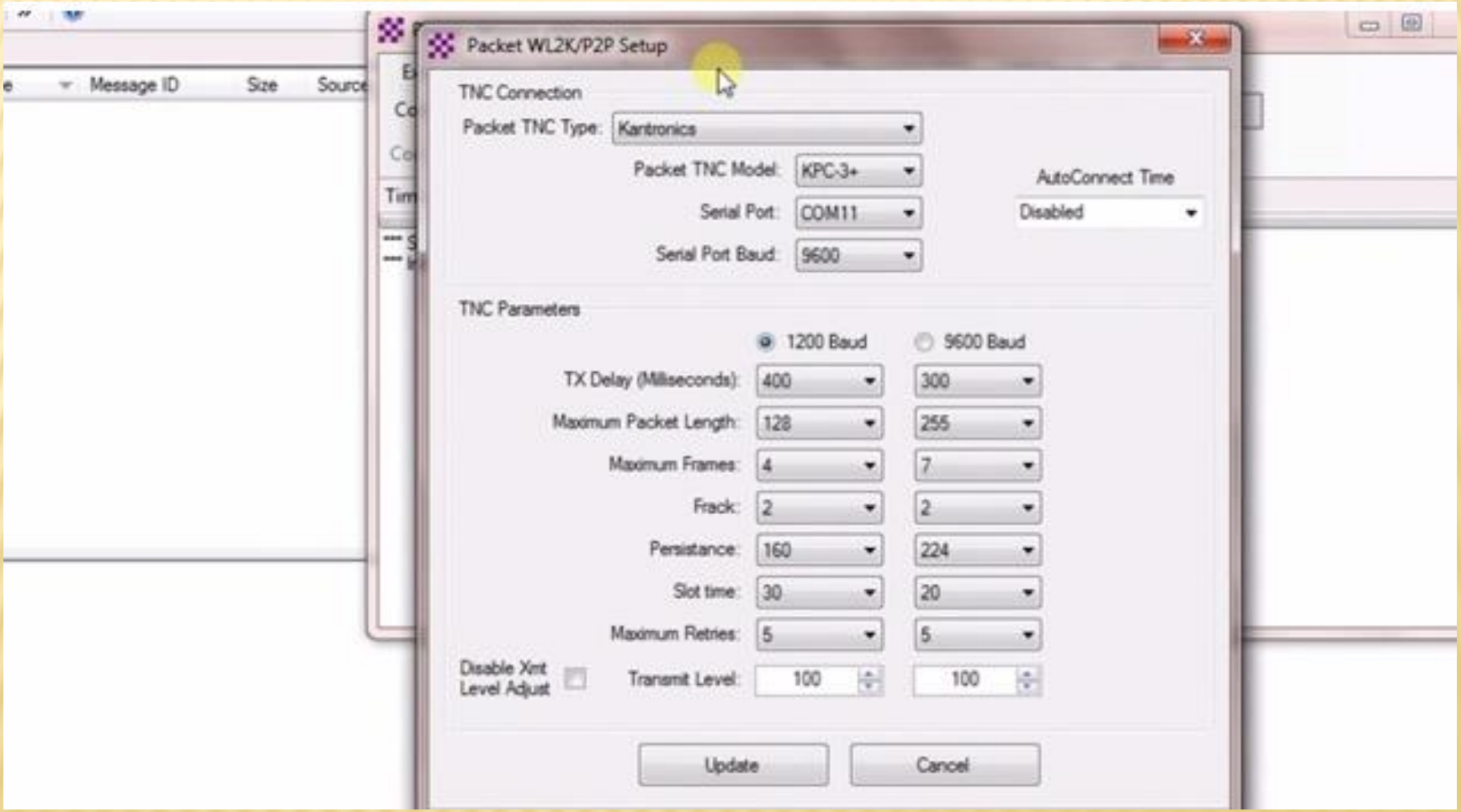

Items
Delete
Open Session:
Telnet WL2K
Logs
Help
Size
Telnet Winlink 2000 Session
Exit
Setup
Start
Stop
Time to next Autoconnect - Disabled
*** Requesting connection to Halifax
*** Connected to Halifax
[WL2K-2.7.8.3-B2FWIHJM$]
;PQ: 89737826
Halifax CMS >
;FW: K4REF UTKMC
[RMS Express-1.2.14.0-B2FHM$]
;PR: 95585097
; WL2K DE K4REF (EM86BB)
FF
FQ


Size
Source
Telnet Winlink 2000 Session
Exit
Setup
Start
Stop
Time to next Autoconnect - Disabled
*** Requesting connection to Halifax
*** Connected to Halifax
[WL2K-2.7.8.3-B2FWIHJM$]
;PQ: 89737826
Halifax CMS >
;FW: K4REF UTKMC
[RMS Express-1.2.14.0-B2FHM$]
;PR: 95585097
; WL2K DE K4REF (EM86BB)
FF
FQ
*** Disconnected

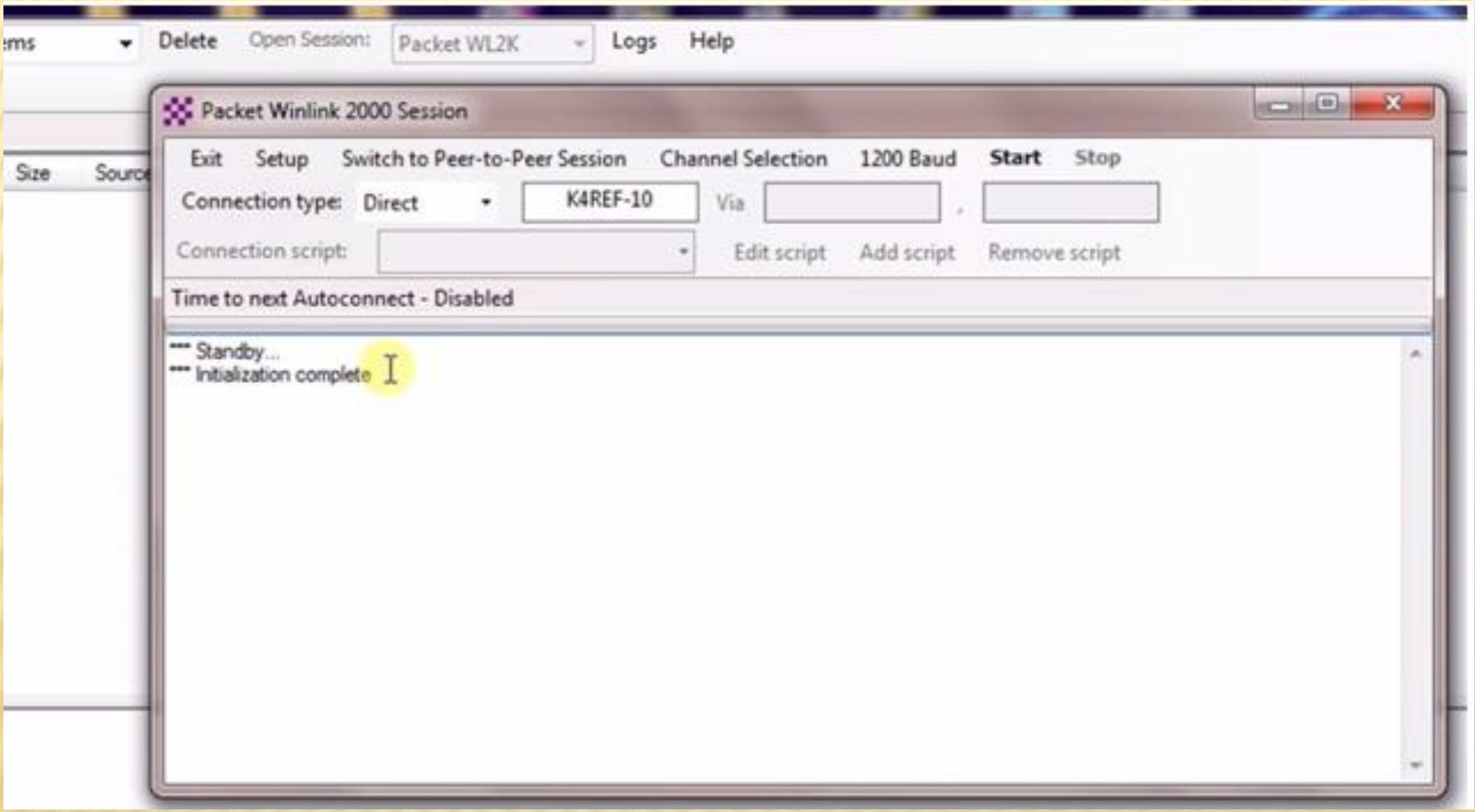
PACKET SESSION



PACKET SETTINGS

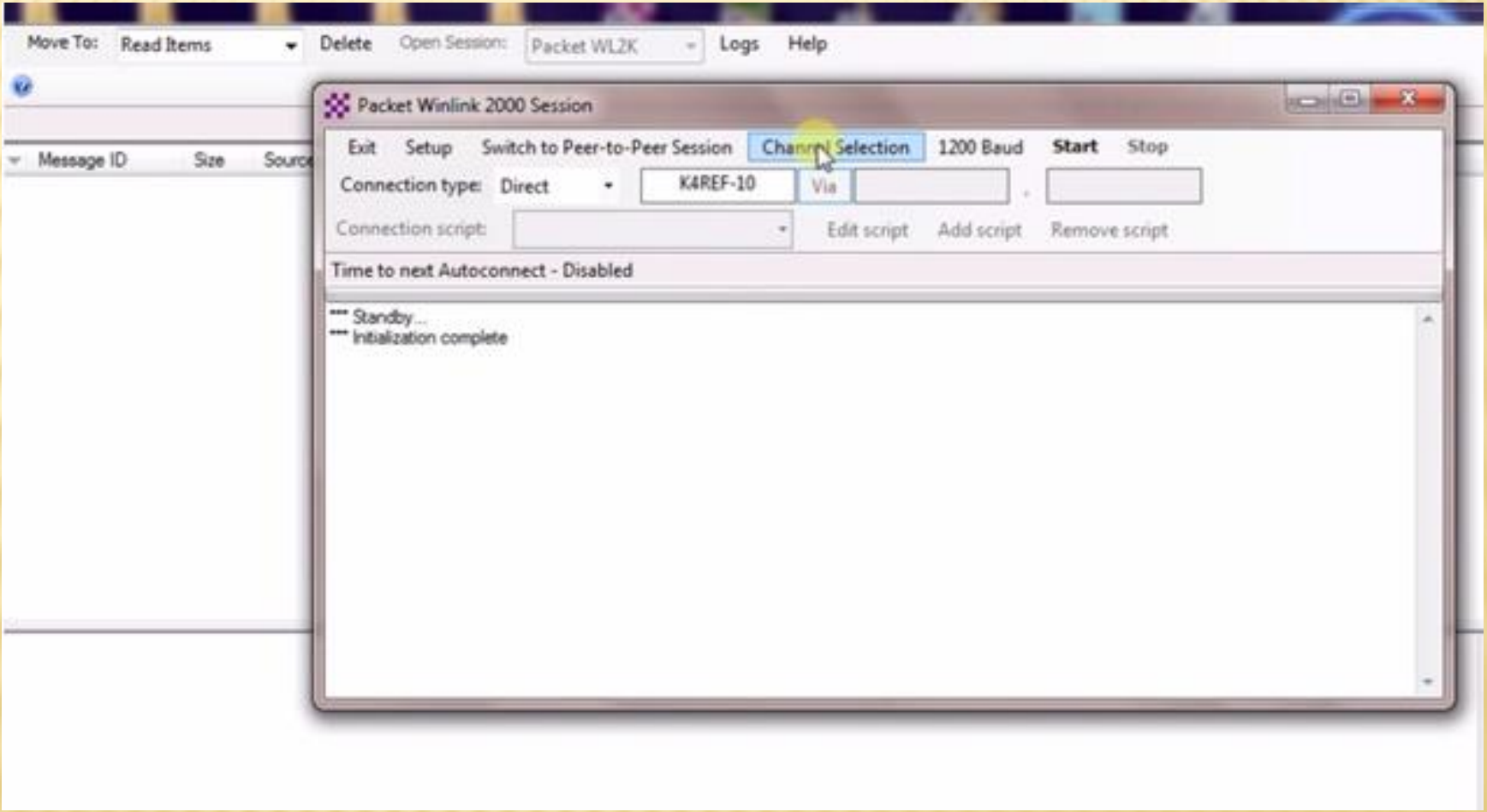


PACKET CONNECT

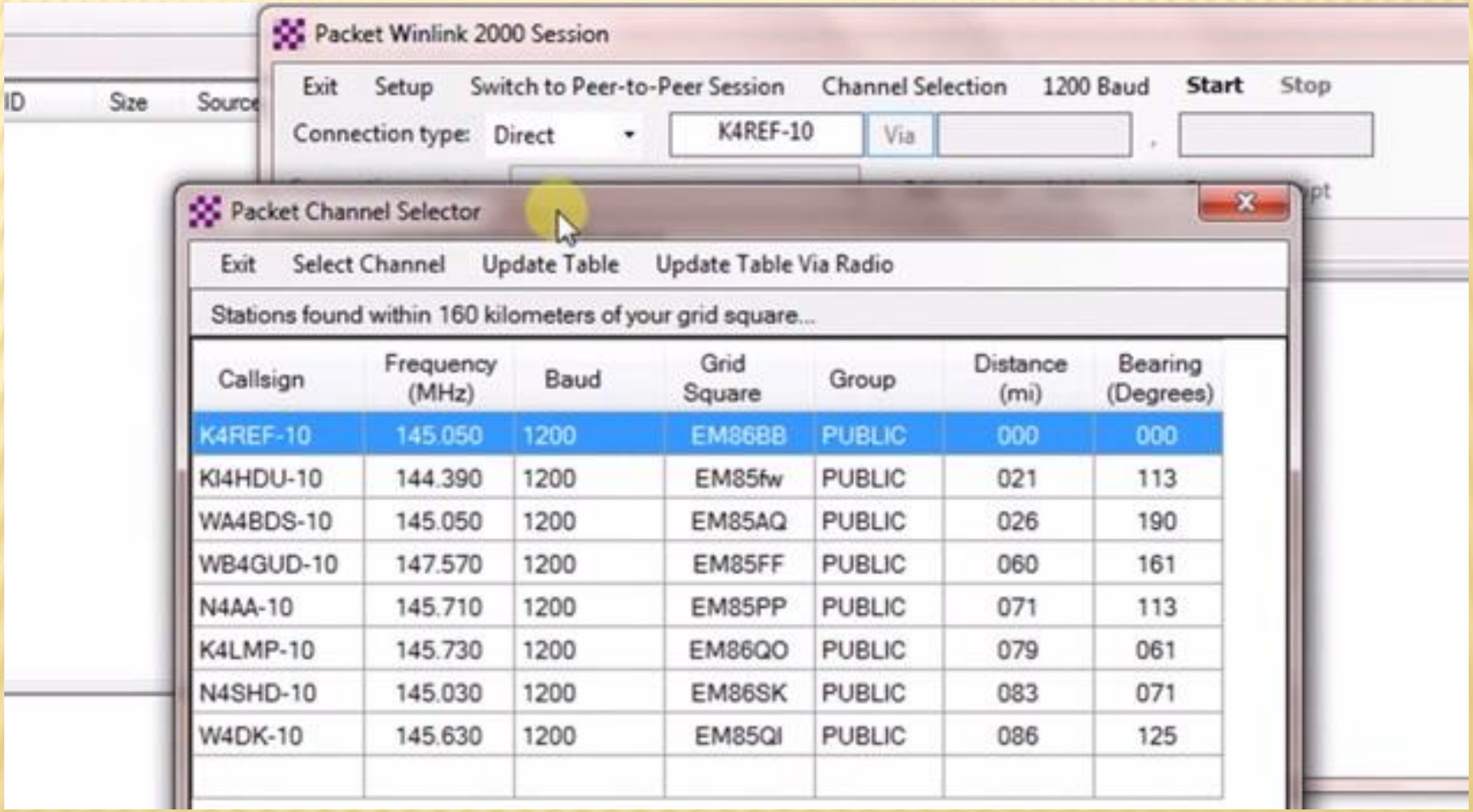


USE DEVICE MANAGER TO CHECK ON COM PORT SETTINGS

PACKET CHANNEL SELECTION



PACKET CHANNEL SELECTION



2014

Cache County ARES

July 15, 2015

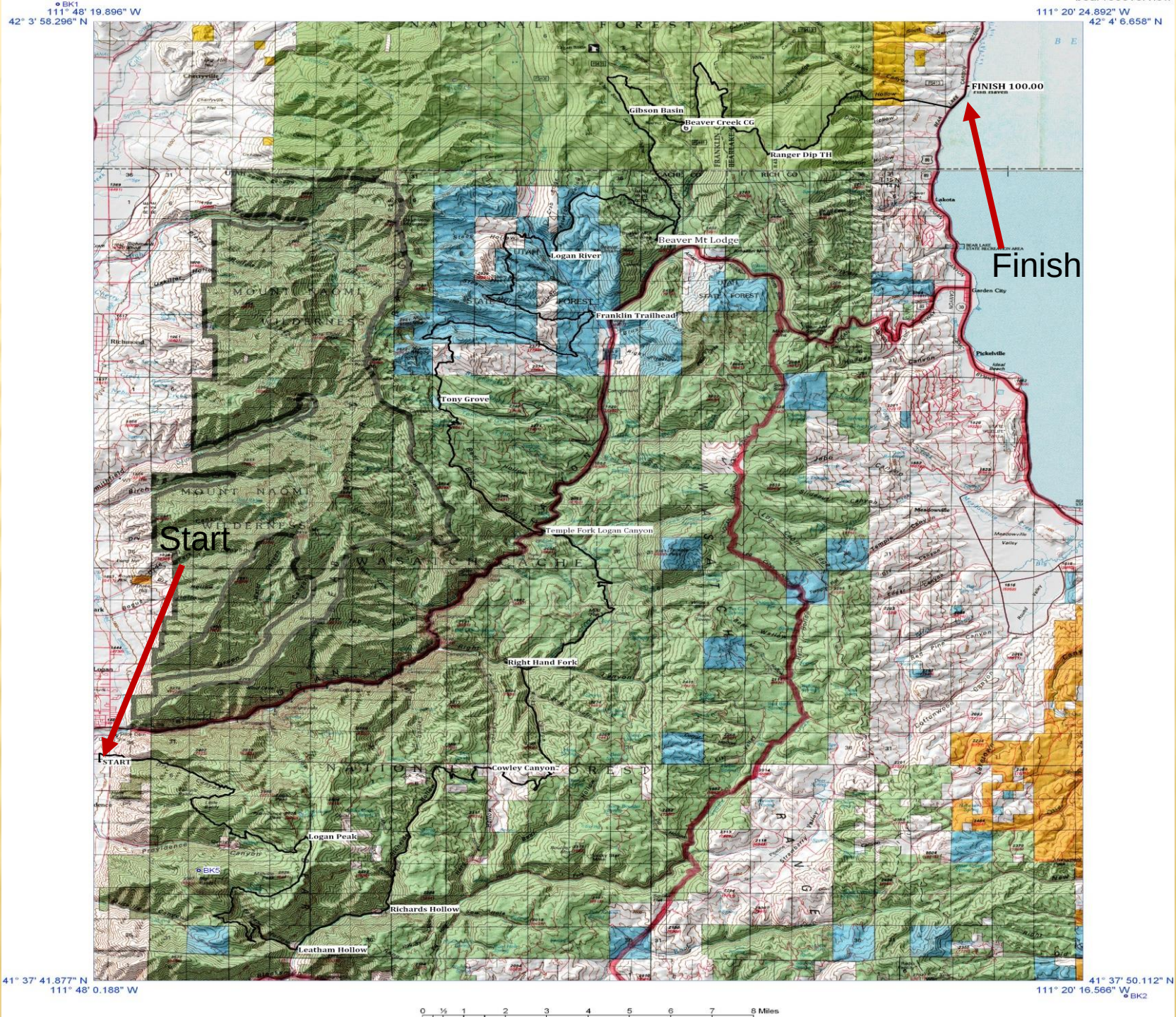
Tyler Griffiths N7UWX

Ted McArthur AC7II

Cordell Smart KE7IK

BEAR 100 DATA ENTRY & TRANSFER

Race Route


BK1
111° 48' 19.896" W
42° 3' 58.296" N
111° 20' 24.892" W
42° 4' 6.658" N
FINISH 100.00
Gibson Basin
Beaver Creek CG
Ranger Dip TH
Beaver Mt Lodge
Logan River
Finish
Franklin Trailhead
Tony Grove
Start
Temple Fork Logan Canyon
Right Hand Fork
START
Cowley Canyon
Logan Peak
BK5
Richards Hollow
Leatham Hollow
41° 37' 41.877" N
111° 48' 0.188" W
41° 37' 50.112" N
111° 20' 16.566" W
BK2
0 ½ 1 2 3 4 5 6 7 8 Miles

2014 IN & OUT TIME DATA

- 13 Aid Stations
- 310 registered. 279 runners started
- In & out time for each

13 X 279 X 2 = 7254 data points

- Plus Finish Line
- 7 seconds per item = over 8 hours of one way transmissions.

BEAR 100 - Year_____

Aid Station_____

Number	Runner #	In	Out	Number	Runner #	In	Out
1				26			
2				27			
3				28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

BEAR 100 - Year 2014

Aid Station 13

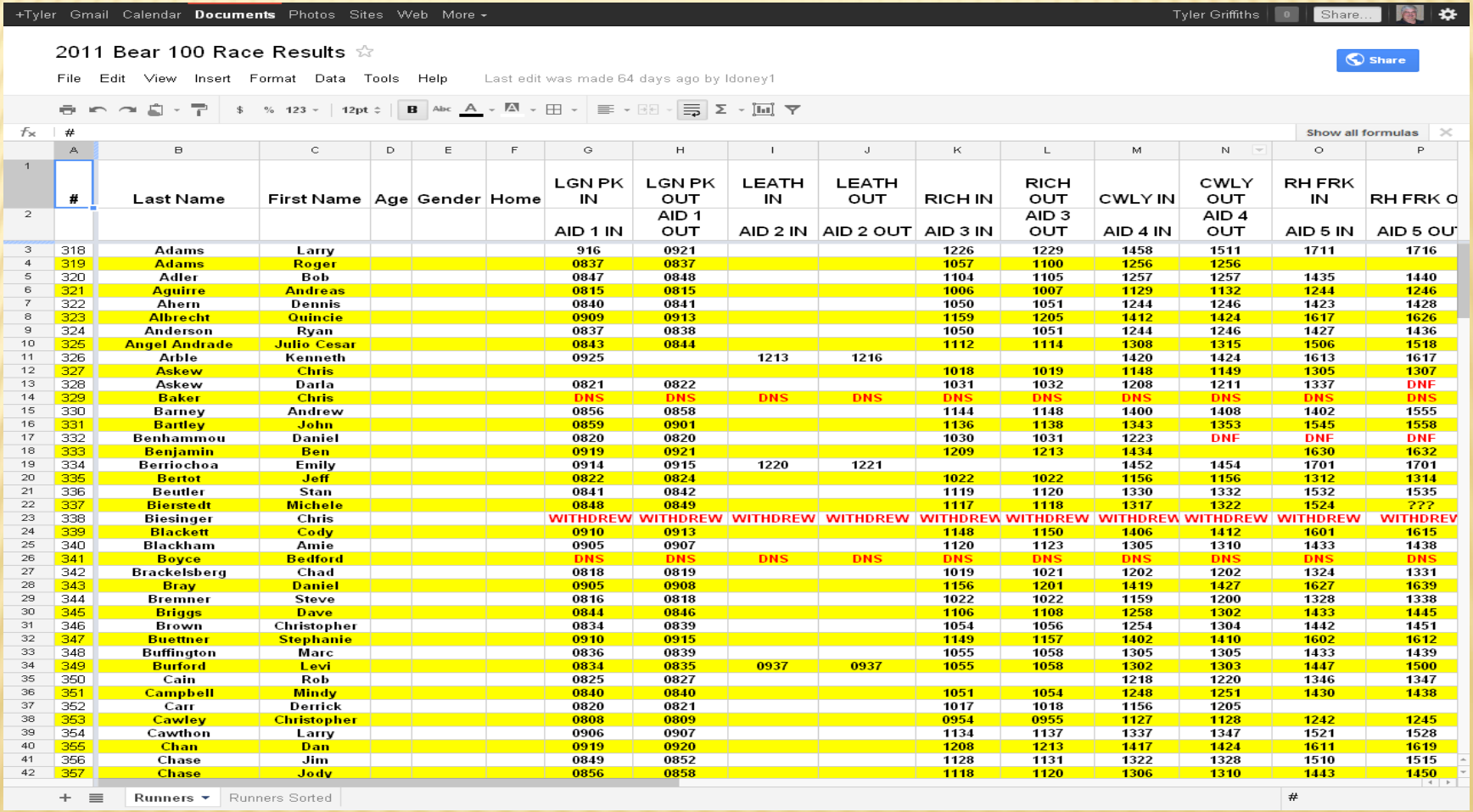
Number	Runner #	In	Out	Number	Runner #	In	Out
1	168	23:41	23:43	26	62	4:37	4:49
2	121	0:25	0:26	27	20	4:45	4:48
3	284	0:32	0:35	28	290	4:49	5:02
4	260	0:51	0:56	29	197	5:19	5:55
5	266	1:09	1:14	30	289	5:20	5:26
6	278	1:26	1:26	31	230	5:41	5:50
7	56	1:50	1:57	32	262	5:58	6:01
8	179	2:07	2:11	33	63	6:20	6:22
9	178	2:22	2:32	34	98	6:22	6:35
10	269	2:51	2:53	35	81	6:23	6:36
11	256	2:52	2:54	36	277	6:33	6:59
12	275	2:53	2:54	37	124	6:39	6:50
13	203	2:54	2:56	38	232	6:39	6:50
14	193	3:18	3:20	39	2	6:50	6:50
15	112	3:23	3:29	40	209	7:08	7:16
16	237	3:39	3:45	41	129	7:12	7:46
17	305	3:40	3:46	42	98	7:13	8:15
18	297	4:10	4:13	43	21	7:13	8:16
19	171	4:17	4:22	44	271	7:36	8:00
20	31	4:20	4:32	45	199	7:36	7:40
21	292	4:23	4:32	46	258	7:39	7:39
22	86	4:24	4:24	47	283	7:41	7:47
23	208	4:29	4:34	48	77	7:45	7:58
24	302	4:31	4:39	49	49	7:48	8:07
25	216	4:32	4:39	50	116	7:53	7:56

6:02

7

8:

DATA USED TO BE TRACKED WITH A PUBLIC GOOGLE SPREADSHEET



+Tyler Gmail Calendar **Documents** Photos Sites Web More — Tyler Griffiths — Share...

2011 Bear 100 Race Results

File Edit View Insert Format Data Tools Help — Last edit was made 64 days ago by ldoney1

Share

Show all formulas

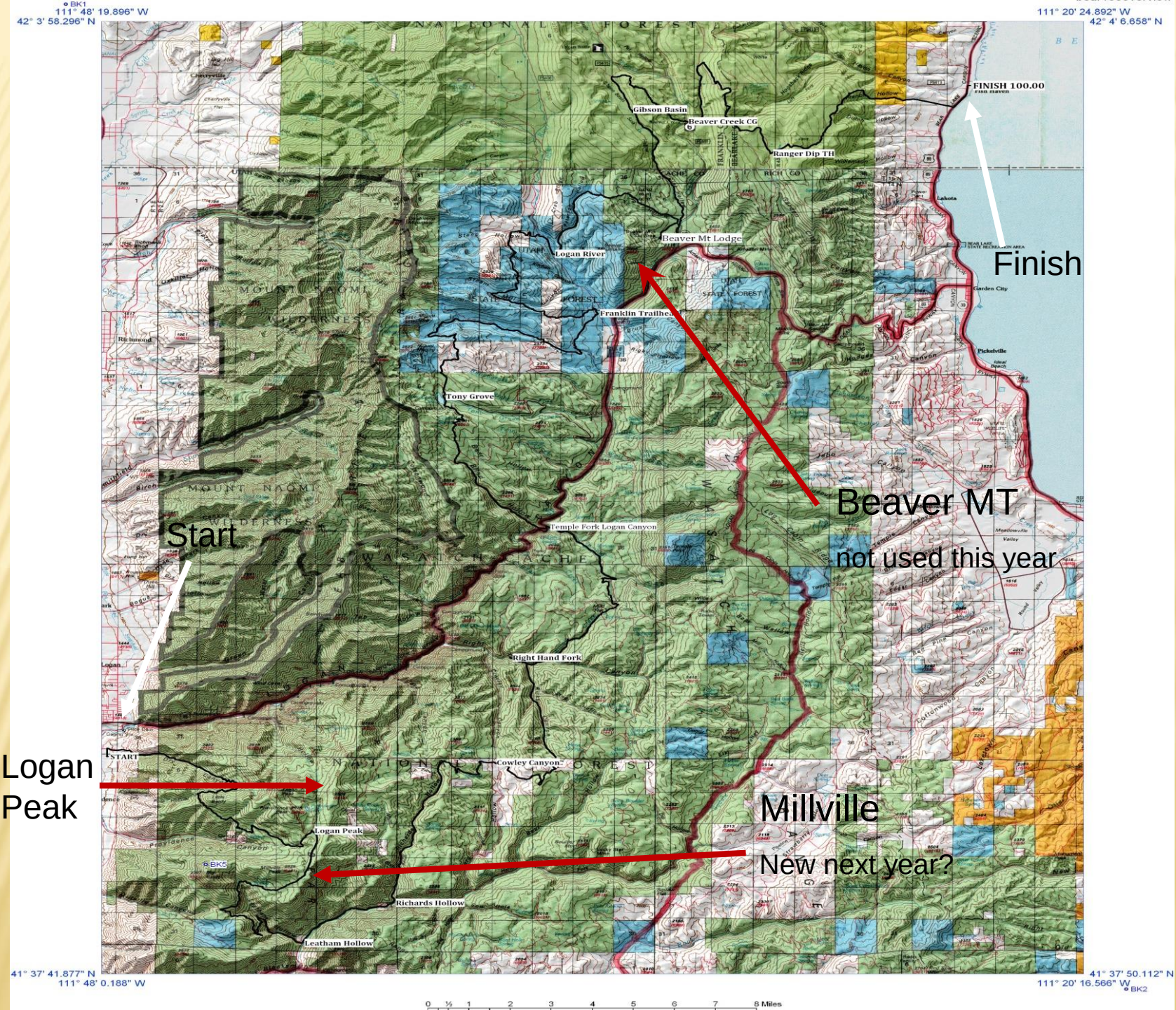
#	Last Name	First Name	Age	Gender	Home	LGN PK IN / AID 1 IN	LGN PK OUT / AID 1 OUT	LEATH IN / AID 2 IN	LEATH OUT / AID 2 OUT	RICH IN / AID 3 IN	RICH OUT / AID 3 OUT	CWLY IN / AID 4 IN	CWLY OUT / AID 4 OUT	RH FRK IN / AID 5 IN	RH FRK O / AID 5 OU
318	Adams	Larry				916	0921			1226	1229	1458	1511	1711	1716
319	Adams	Roger				0837	0837			1057	1100	1256	1256		
320	Adler	Bob				0847	0848			1104	1105	1257	1257	1435	1440
321	Aguirre	Andreas				0815	0815			1006	1007	1129	1132	1244	1246
322	Ahern	Dennis				0840	0841			1050	1051	1244	1246	1423	1428
323	Albrecht	Quincie				0909	0913			1159	1205	1412	1424	1617	1626
324	Anderson	Ryan				0837	0838			1050	1051	1244	1246	1427	1436
325	Angel Andrade	Julio Cesar				0843	0844			1112	1114	1308	1315	1506	1518
326	Arble	Kenneth				0925		1213	1216			1420	1424	1613	1617
327	Askew	Chris								1018	1019	1148	1149	1305	1307
328	Askew	Darla				0821	0822			1031	1032	1208	1211	1337	DNF
329	Baker	Chris				DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS
330	Barney	Andrew				0856	0858			1144	1148	1400	1408	1402	1555
331	Bartley	John				0859	0901			1136	1138	1343	1353	1545	1558
332	Benhammou	Daniel				0820	0820			1030	1031	1223	DNF	DNF	DNF
333	Benjamin	Ben				0919	0921			1209	1213	1434		1630	1632
334	Berriochoa	Emily				0914	0915	1220	1221			1452	1454	1701	1701
335	Bertot	Jeff				0822	0824			1022	1022	1156	1156	1312	1314
336	Beutler	Stan				0841	0842			1119	1120	1330	1332	1532	1535
337	Bierstedt	Michele				0848	0849			1117	1118	1317	1322	1524	???
338	Biesinger	Chris				WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW
339	Blackett	Cody				0910	0913			1148	1150	1406	1412	1601	1615
340	Blackham	Amie				0905	0907			1120	1123	1305	1310	1433	1438
341	Boyce	Bedford				DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS
342	Brackelsberg	Chad				0818	0819			1019	1021	1202	1202	1324	1331
343	Bray	Daniel				0905	0908			1156	1201	1419	1427	1627	1639
344	Bremner	Steve				0816	0818			1022	1022	1159	1200	1328	1338
345	Briggs	Dave				0844	0846			1106	1108	1258	1302	1433	1445
346	Brown	Christopher				0834	0839			1054	1056	1254	1304	1442	1451
347	Buettner	Stephanie				0910	0915			1149	1157	1402	1410	1602	1612
348	Buffington	Marc				0836	0839			1055	1058	1305	1305	1433	1439
349	Burford	Levi				0834	0835	0937	0937	1055	1058	1302	1303	1447	1500
350	Cain	Rob				0825	0827					1218	1220	1346	1347
351	Campbell	Mindy				0840	0840			1051	1054	1248	1251	1430	1438
352	Carr	Derrick				0820	0821			1017	1018	1156	1205		
353	Cawley	Christopher				0808	0809			0954	0955	1127	1128	1242	1245
354	Cawthon	Larry				0906	0907			1134	1137	1337	1347	1521	1528
355	Chan	Dan				0919	0920			1208	1213	1417	1424	1611	1619
356	Chase	Jim				0849	0852			1128	1131	1322	1328	1510	1515
357	Chase	Jody				0856	0858			1118	1120	1306	1310	1443	1450

Runners | Runners Sorted | #

2014 PACKET/RMS STATISTICS

- Aid Stations Using Computers 13 + Finish Line
- Aid Stations using Packet - 10
  - 1, 3, 4, 5, 6, 7, 8, 9, 10, 13
- Connect Requests = 188
- Activity Time Out = 35
- Successful Sent Files = 54

Packet Node Locations



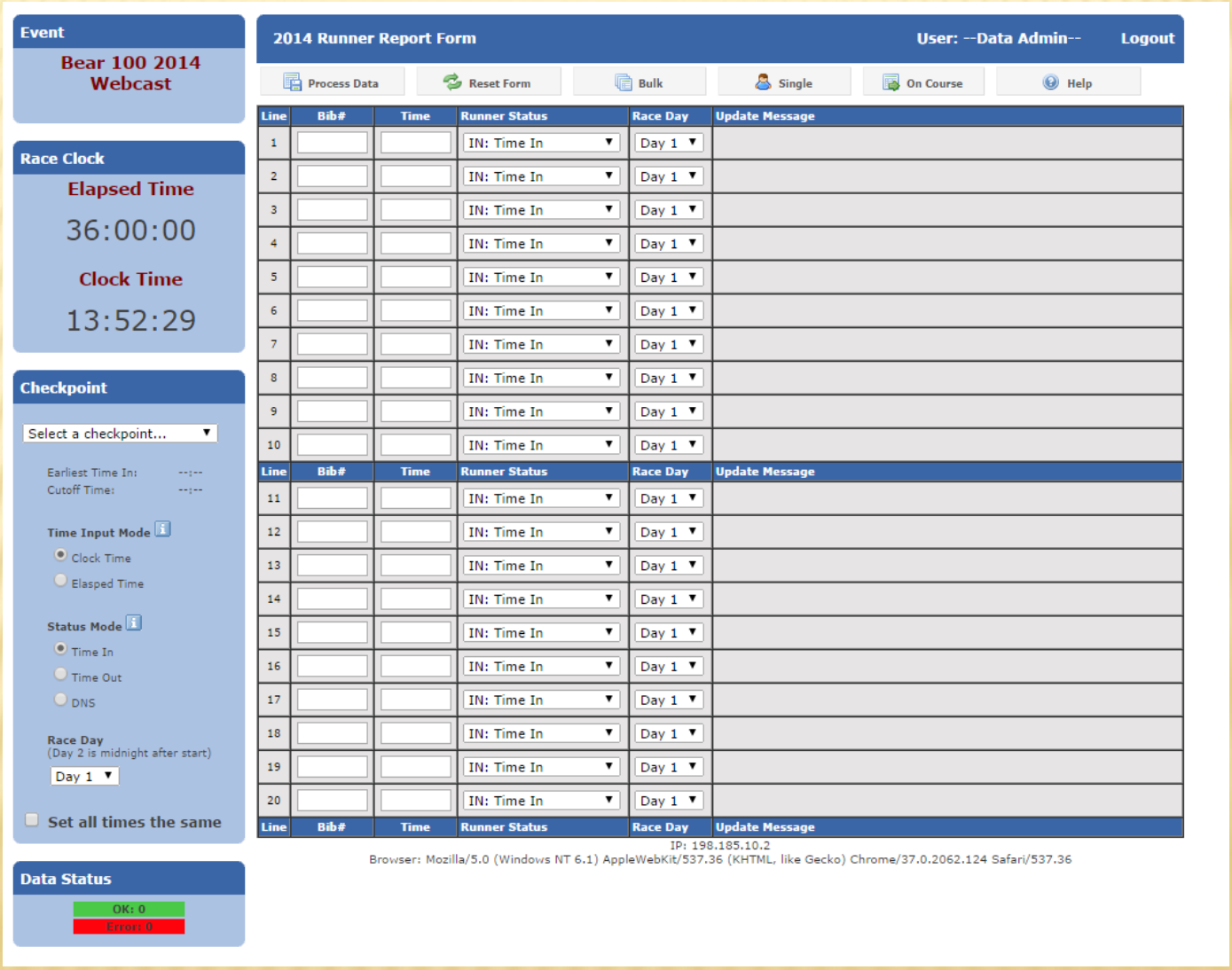
2014 PACKET/RMS STATISTICS

- Time to send DNS/DNF .cvs 1:11
- Time to send DNS/DNF .xls 3:12
- Time to send Aid1 Final 1:03

These were one hop test. Through a digi (not direct) would probably double the time.

- Most connects took 2 – 4 minuets
- Aid Station 3 used pure packet. Took 8 – 9 minuets per file
- RMS Express packet compression does work.

ONLINE DATA ENTRY



ONLINE LOOK-UP

Bear 100 2014 Webcast
September 26-27, 2014

Elapsed Time: 36:00:00

Runner:

Race Information

- Overall Leaders
- Top Men
- Top Women
- By Checkpoint
- My Favorites
- Starters
- **Finishers**
- Drops

My Favorites

<< Return Station Detail

Place	Bib No	Name	Status	Time In	Time Out	Elapsed	Gender	Age
1	168	Brian Peterson	Finished	00:59am	--:--	18:59:24	M	32
2	284	Luke Nelson	Finished	01:51am	--:--	19:51:21	M	34
3	121	Jason Koop	Finished	02:06am	--:--	20:06:58	M	35
4	260	Pierre Loic Deragne	Finished	02:32am	--:--	20:32:18	M	45
5	266	Jeason Murphy	Finished	02:42am	--:--	20:42:22	M	34
6	278	Anna Frost	Finished	02:59am	--:--	20:59:24	F	32
7	56	Dustin Simoens	Finished	03:47am	--:--	21:47:46	M	26
8	178	Gabe Joyes	Finished	04:08am	--:--	22:08:56	M	28
9	179	Clay Warner	Finished	04:11am	--:--	22:11:51	M	31
10	269	Elliott Barcikowski	Finished	04:50am	--:--	22:50:14	M	34
11	203	John Fitzgerald	Finished	04:50am	--:--	22:50:43	M	27
12	256	Ted Mahon	Finished	04:52am	--:--	22:52:07	M	42
13	193	George's Dad	Finished	05:10am	--:--	23:10:34	M	36
14	237	Gary Davis	Finished	05:28am	--:--	23:28:26	M	40
15	112	Jeff Rome	Finished	05:34am	--:--	23:34:39	M	25
16	305	Shane Martin	Finished	05:34am	--:--	23:34:39	M	47
17	275	Phillip Lowry	Finished	05:55am	--:--	23:55:59	M	48
18	86	Sebastien Welterlin	Finished	06:03am	--:--	24:03:26	M	36
19	171	Paul Monaco	Finished	06:10am	--:--	24:10:20	M	39
20	208	Jason Eichhorst	Finished	06:13am	--:--	24:13:46	M	38
21	297	Matt Schrier	Finished	06:23am	--:--	24:23:00	M	41
22	292	Kevin Shilling	Finished	06:28am	--:--	24:28:30	M	46
23	216	Curtis Adams	Finished	06:37am	--:--	24:37:08	M	32
24	31	Judd Haaland	Finished	06:42am	--:--	24:42:00	M	49
25	20	Sarah Vlach	Finished	06:47am	--:--	24:47:32	F	43
26	302	Ian Farris	Finished	07:06am	--:--	25:06:59	M	32
27	62	Adam Takacs	Finished	07:29am	--:--	25:29:02	M	34
28	290	Petra Mcdowell	Finished	07:45am	--:--	25:45:51	F	42
29	289	Garrett Smith	Finished	07:49am	--:--	25:49:52	M	34
30	262	Spencer Weiler	Finished	07:55am	--:--	25:55:28	M	29
31	63	Amber Monforte	Finished	08:14am	--:--	26:14:35	F	36
32	230	Michael Mcknight	Finished	08:19am	--:--	26:19:40	M	24
33	232	Derek Call	Finished	08:39am	--:--	26:39:49	M	37
34	2	Richard Kresser	Finished	08:39am	--:--	26:39:51	M	28
35	124	Ashley Maudsley	Finished	08:40am	--:--	26:40:14	F	32
36	197	Pablo Garcia	Finished	08:42am	--:--	26:42:26	M	31
37	81	Amie Blackham	Finished	08:44am	--:--	26:44:12	F	35
38	78	Seth Hales	Finished	08:44am	--:--	26:44:12	M	30
39	277	Erik Syrstad	Finished	08:59am	--:--	26:59:14	M	36
40	199	Anthony Garber	Finished	09:19am	--:--	27:19:57	M	51
41	283	Tony Henderson	Finished	09:33am	--:--	27:33:36	M	36
42	129	Jonathan Stuart	Finished	09:36am	--:--	27:36:33	M	31
43	116	Cody Reeder	Finished	09:47am	--:--	27:47:57	M	44
44	98	Kyle Markisich	Finished	09:50am	--:--	27:50:45	M	30
45	77	Jessica Laroche	Finished	09:56am	--:--	27:56:47	F	35
46	221	Erich Owen	Finished	10:02am	--:--	28:02:46	M	41
47	240	Don Hantla	Finished	10:04am	--:--	28:04:49	M	28
48	299	Bruce Godderidge	Finished	10:07am	--:--	28:07:06	M	56
49	39	Jon Webb	Finished	10:09am	--:--	28:09:22	M	40
50	238	Brian Hamos	Finished	10:19am	--:--	28:19:15	M	51

DNS/DNF LIST

2014 Bear 100 DNS (did not start) DNF (did not finish) and Latest Info

System time: 10/29/2014 13:45:51

Add More Rows As Necessary

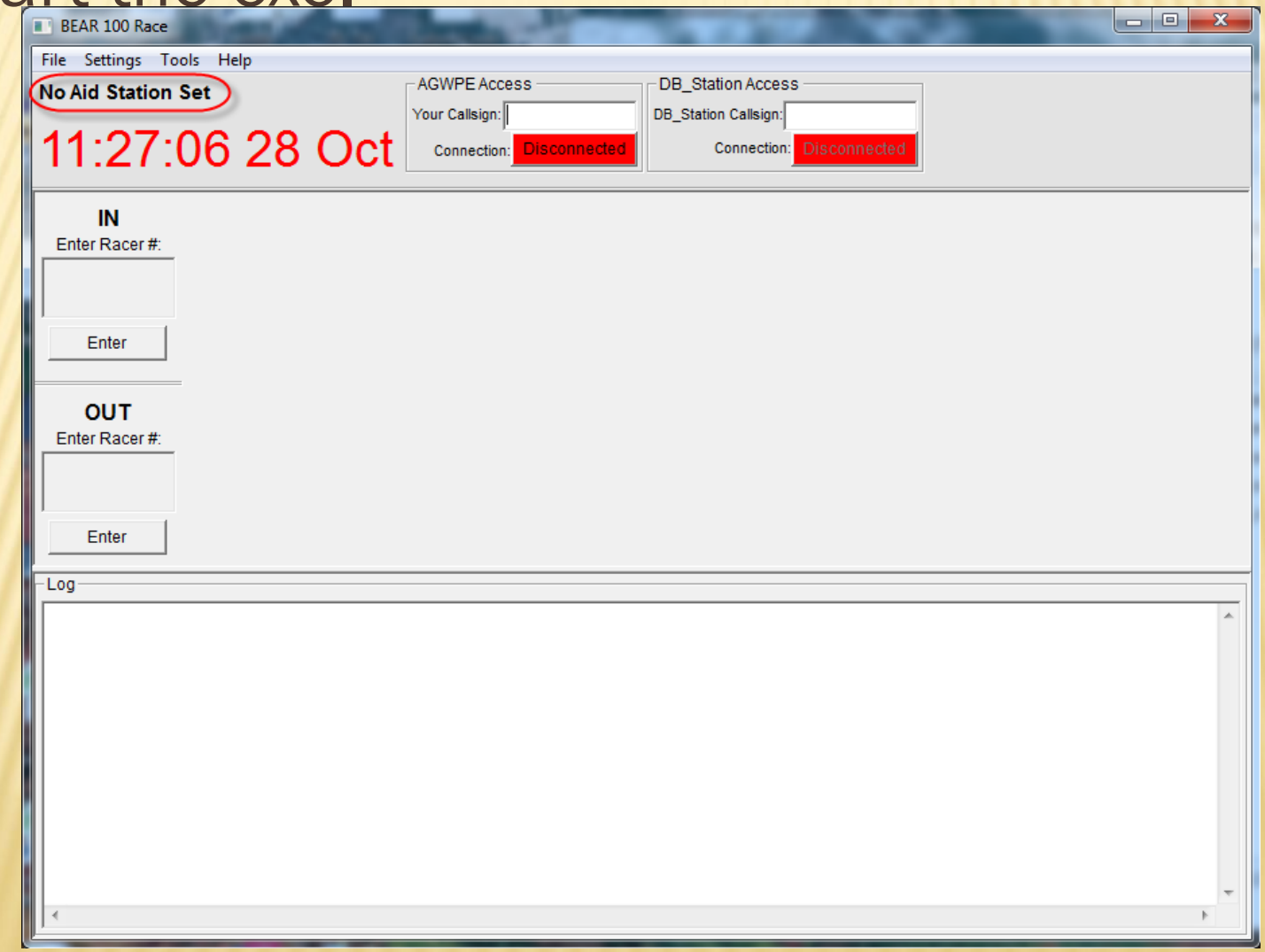
	DNS					DNF							
Line#	Bib #	First Name	Last Name	Sex	Line#	Bib #	First Name	Last Name	Sex	DNF Type	DNF Location	Time	Notes
1	14	Chris	Mead	M	1	4	Thim	Shea	M		Aid 6	2149	
2	27	Mark	Tichinel	M	2	9	Scott	Kummer	M		Aid 6	2219	
3	29	Jason	Carpenter	M	3	11	Dale	Cougot	M		Aid 12	1228	
4	32	Robert	Villani	M	4	12	Peter	Bray	M		Aid13	1352	
5	34	Paul	Smith	M	5	15	Brody	Welch	M		Aid 7	0027	
6	42	Victoria	Funk	F	6	16	Daniel	Kefford	M		Aid 12	220	
7	47	Betsy	Romney	F	7	19	Tom	Dmukauskas	M		Aid 7	1707	
8	57	Chelsey	Anderson	F	8	23	Hayley	Pollack	F		Aid 6	2219	
9	59	Jason	Thompson	M	9	25	Christian	Sorenson	M		Aid 11	641	Headed to 12
10	68	Linda	Mcfadden	F	10	30	Matthew	Hintzman	M		Aid 12	649	
11	71	Jeff	Pflueger	M	11	37	Linh	Shark	F		Aid13	1649	
12	79	Elizabeth	Desser	F	12	45	Kelly	Agnew	M		Aid 5	15:25:00	
13	88	James	Litchfield	M	13	48	Ben	Fletcher	M		Aid 8	209	
14	89	Donna	Braswell	F	14	51	Jason	Davis	M		aid 7	2219	
15	94	Erin	Euston	F	15	54	Brian	Mcneill	M		Aid 10	906	
16	95	Rob	Cook	M	16	60	Sean	Doran	M		Aid 6	1759	
17	101	Jim	Williamson	M	17	61	Drew	Meyer	M		Aid 9	706	
18	106	Robert	Youngman	M	18	64	Dave	Kappus	M		Aid 13	1354	

RUNNER TIME ENTRY

- Software Time Entry.
  - Bear100win-v5.exe
    - Authors Cordell Smart KE7IK, Andrew Smart.

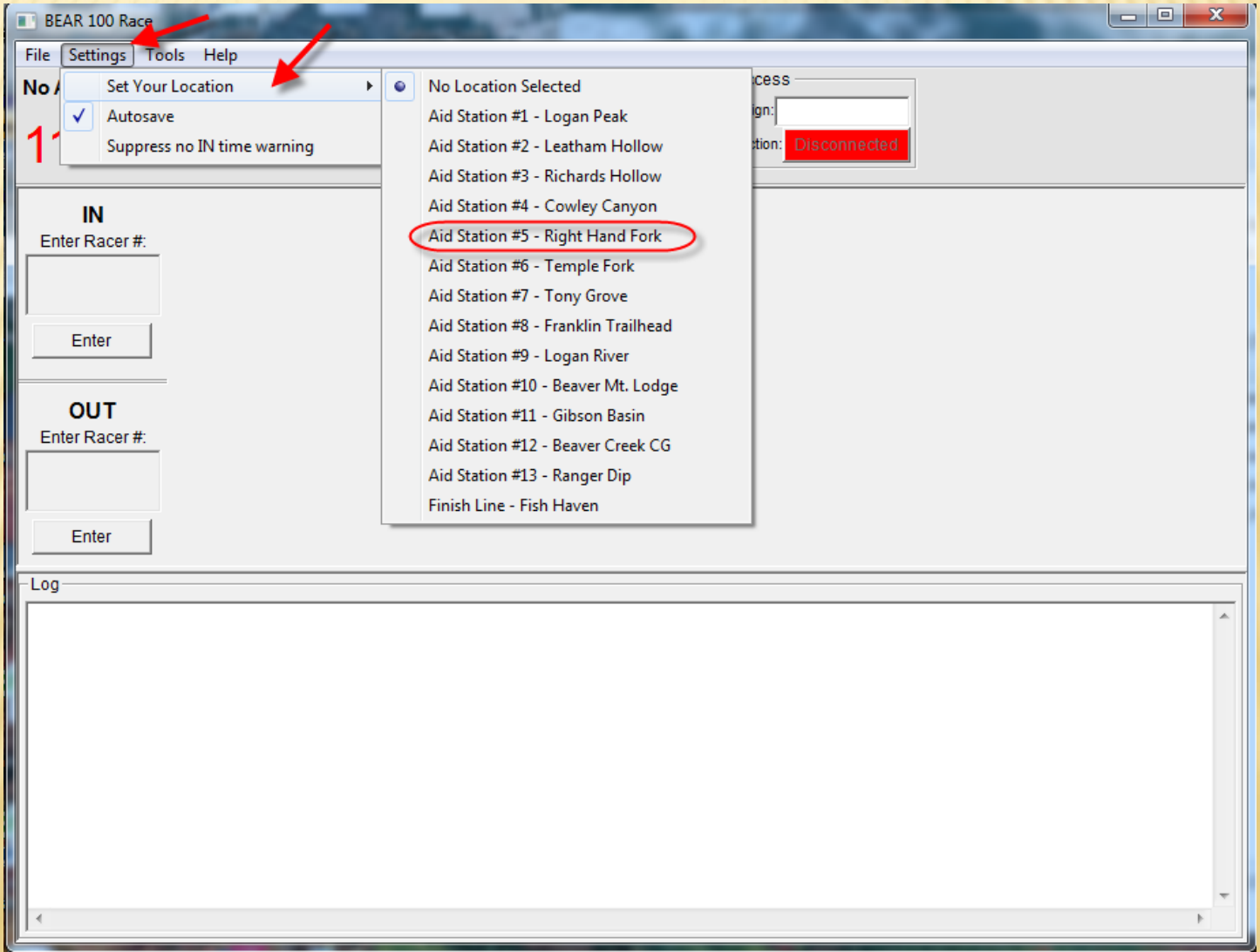
RUNNER TIME ENTRY

- Start the exe.

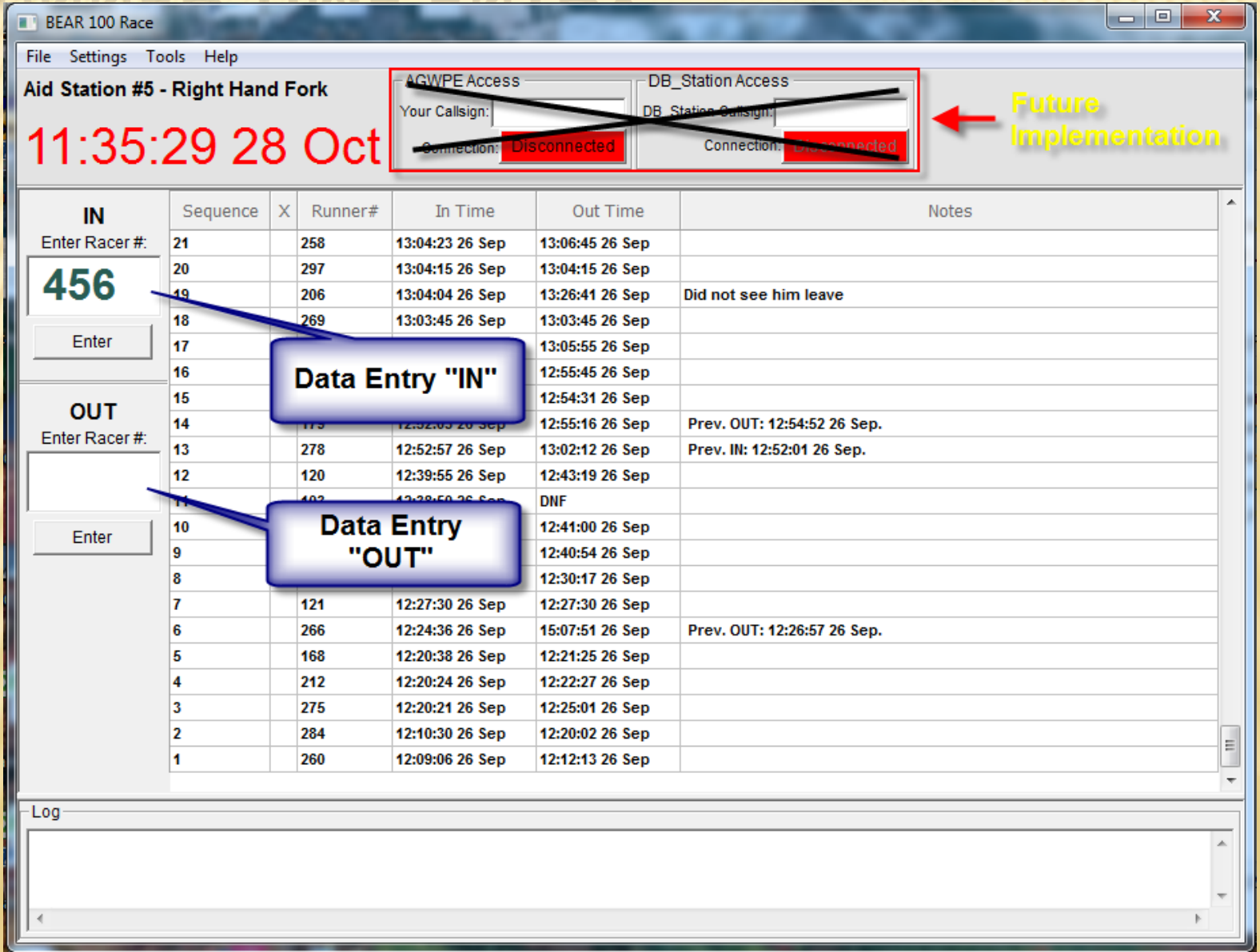


RUNNER TIME ENTRY

- Pick the Aid Station Location.

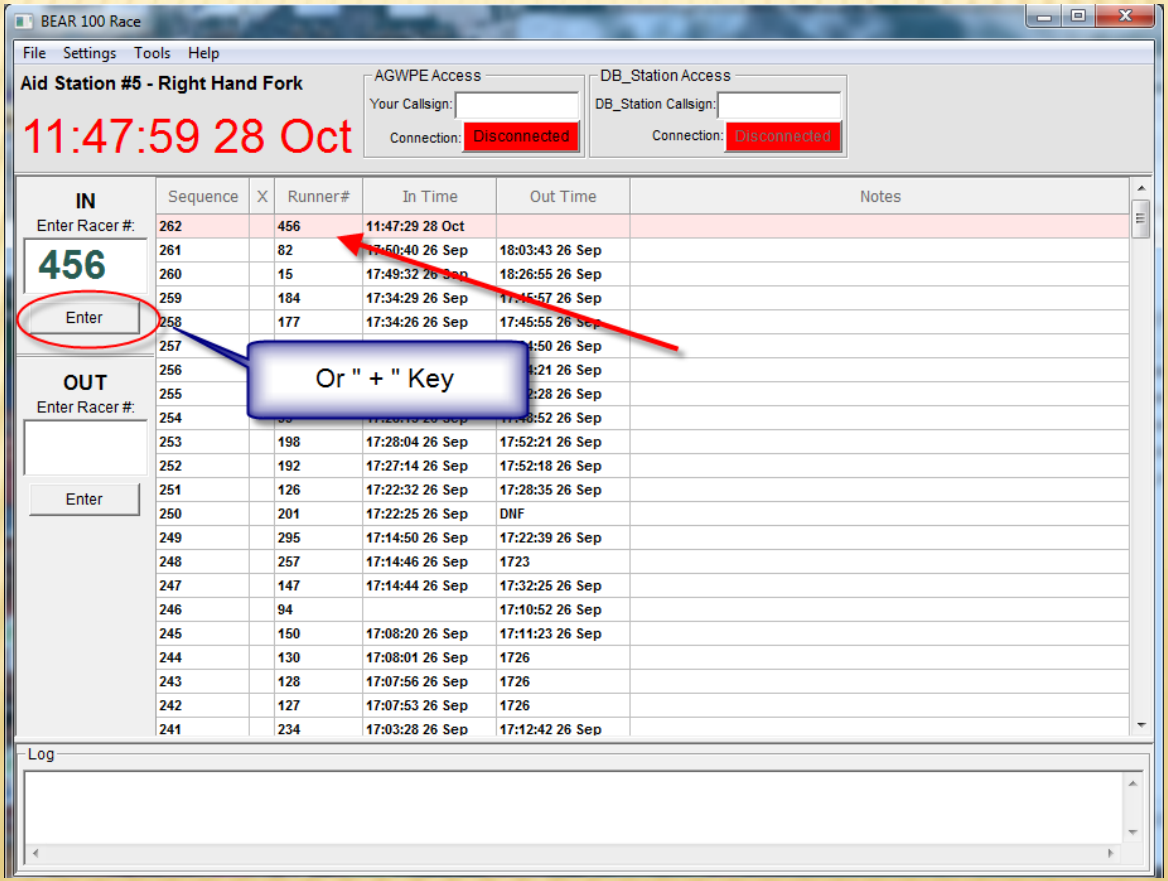


RUNNER TIME ENTRY



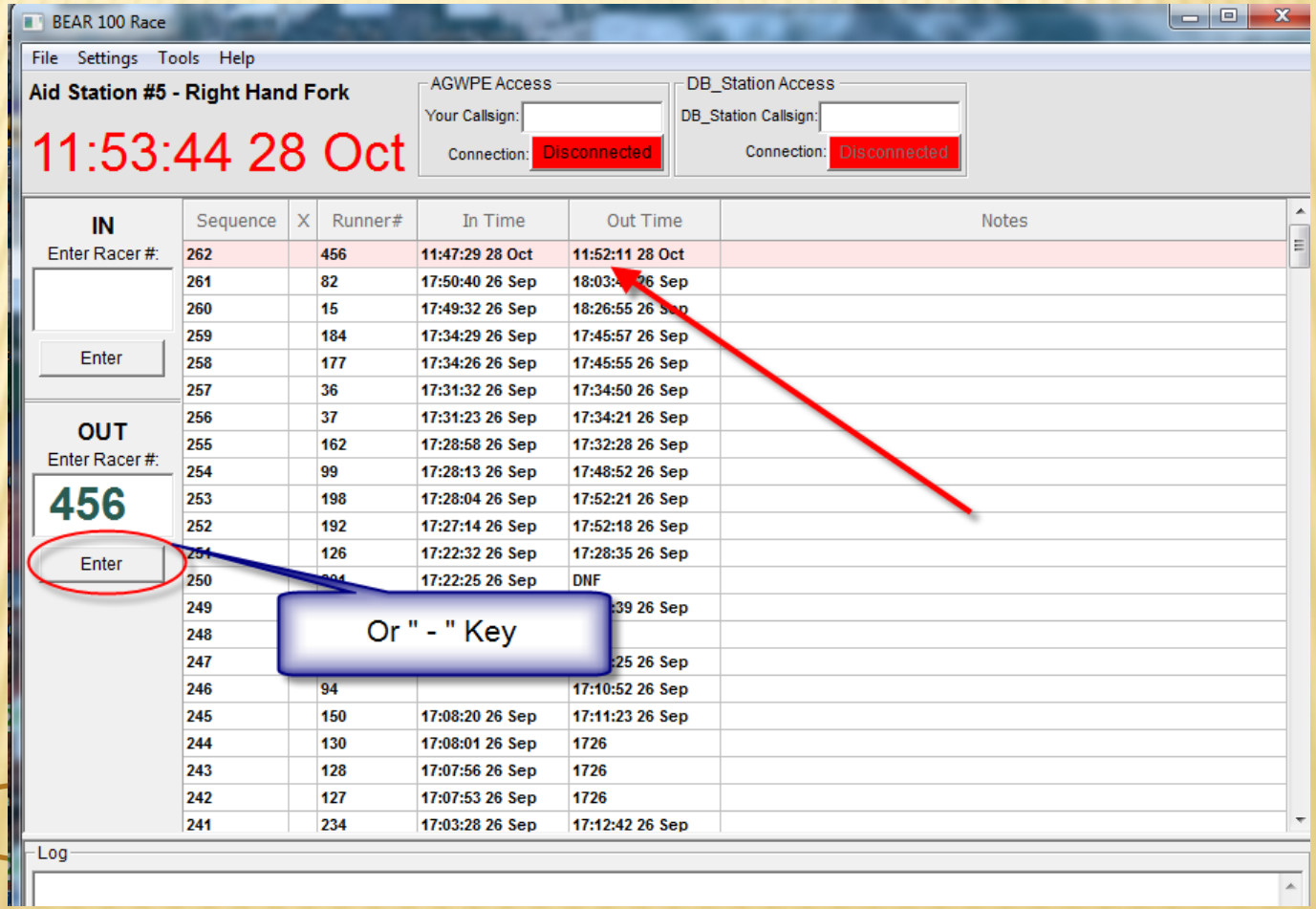
RUNNER TIME ENTRY

1. Several ways to enter it to Data Base with times.
2. For IN with number in the IN Box hit the Enter Box below, or hit the + Key.



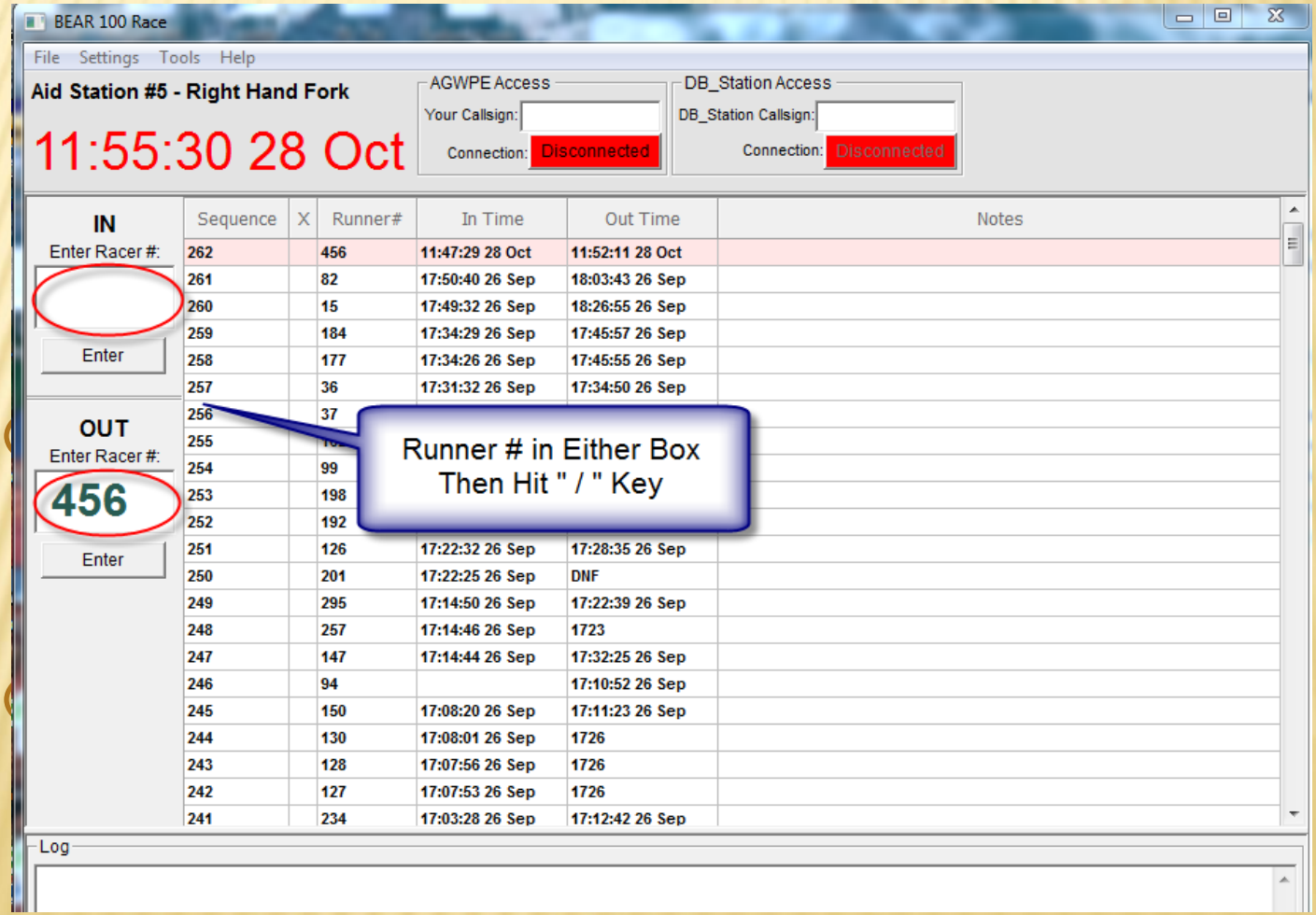
RUNNER TIME ENTRY

1. For OUT with the runner number in the OUT Box hit the Enter Box Below, or hit the – Key.



RUNNER TIME ENTRY

1. For IN & OUT put the runner Number in either box and hit “/” key.



KEYBOARD SHORTCUTS

- Numeric key " + " adds the IN Time for the runner.
- Numeric key " - " adds the OUT Time for the runner.
- Numeric key " / " adds the same time to the IN & OUT Time for the runner.

Attaching a number pad either USB or wireless will greatly enhance data entry!

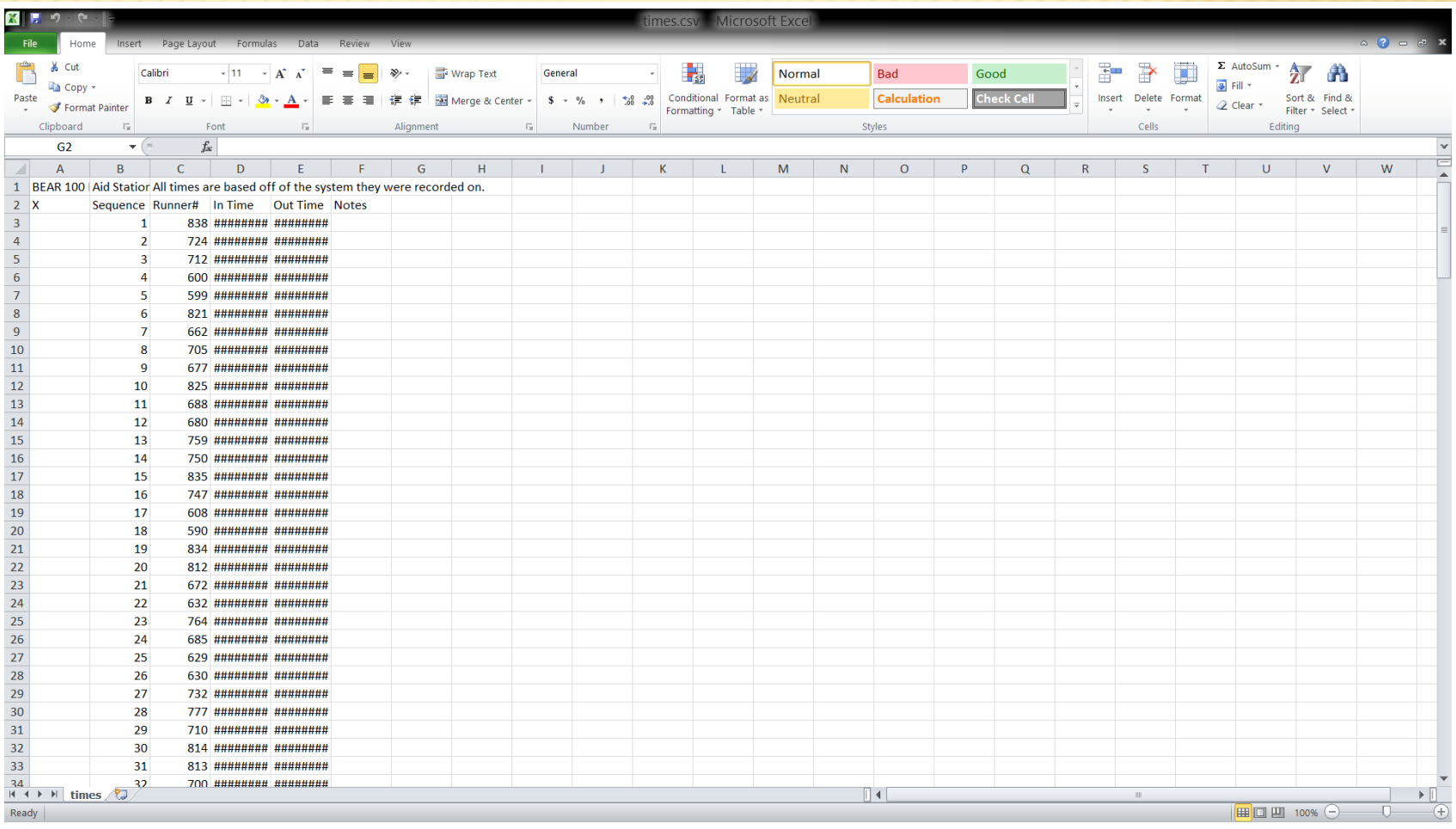
RFID

GETTING DATA FILE TO SEND

1. Periodically send a file to keep the Master Database fairly up-to-date
2. Open the Data file It is in the folder that the exe. On my computer C:/Bear100app-V5/Backup.csv
3. Open it with Excel
4. Do a Save As with name you will remember and tells you what data is there. Like the Sequence Number so you know were you are.

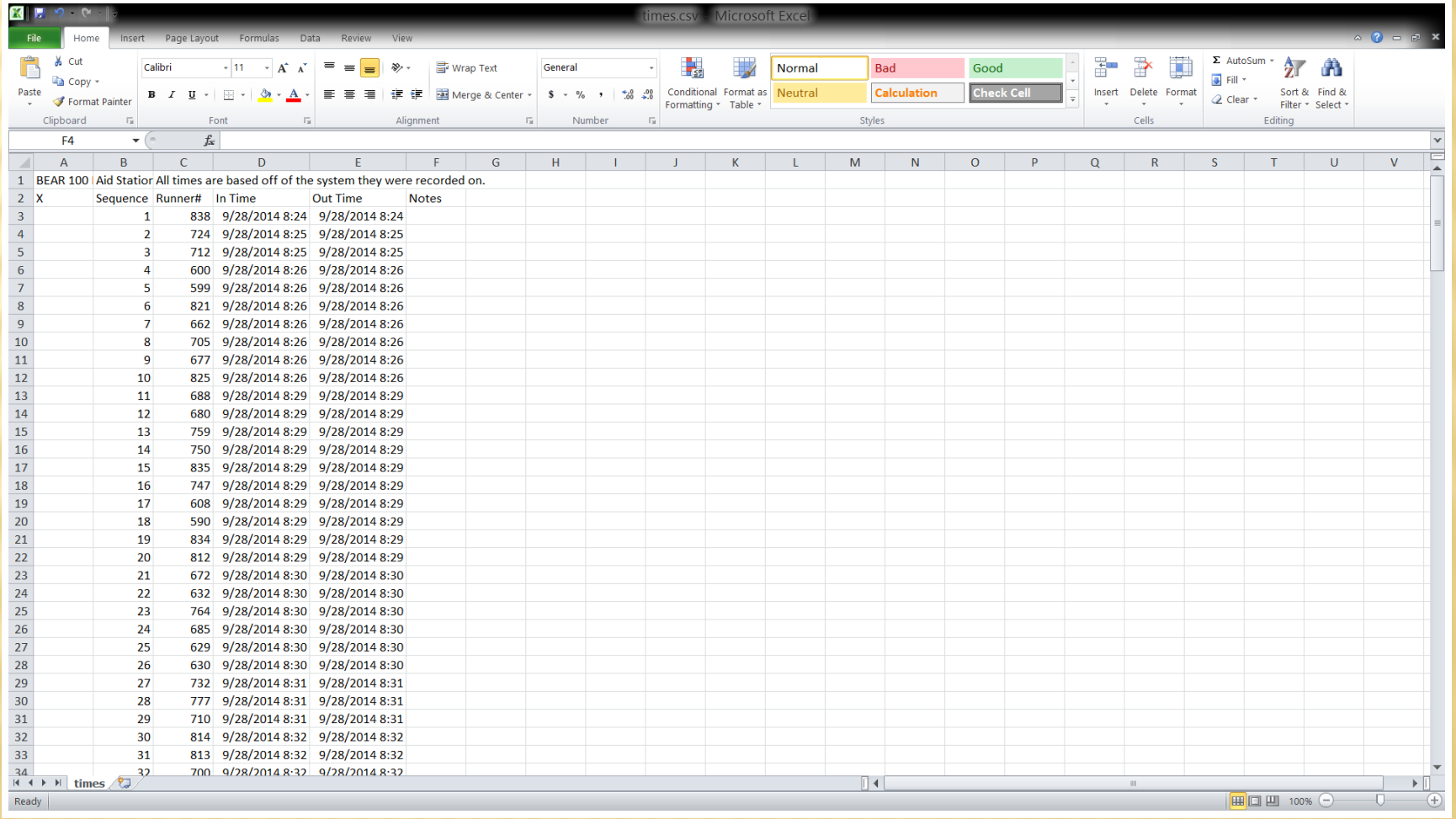
GETTING DATA FILE TO SEND

The ######## is because the cell is too small, Select Colum D&E put cursor next to the right edge of the cell on the top of Colum a double arrow will appear, Then drag it a little and the numbers will appear.

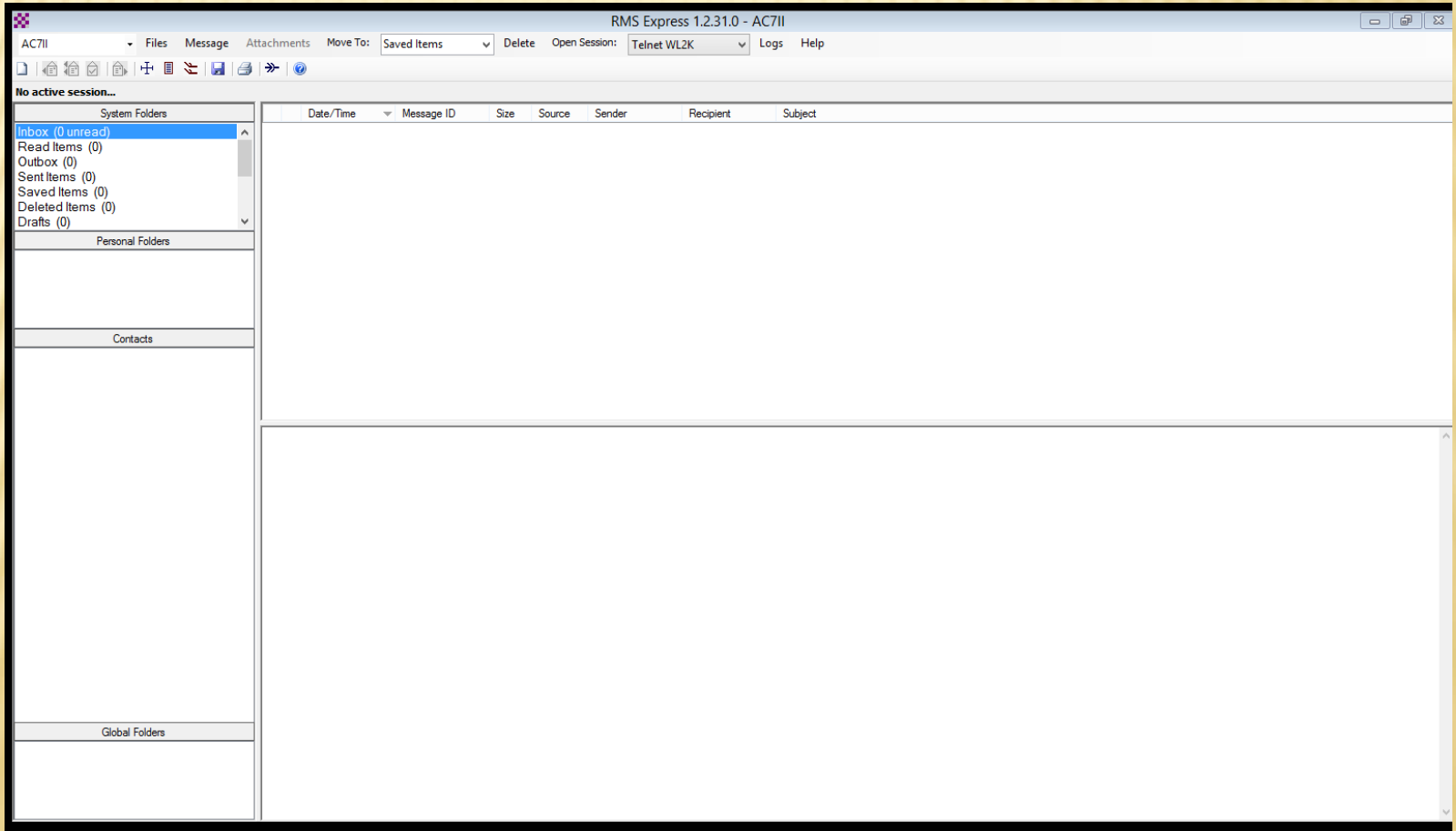


GETTING DATA FILE TO SEND

1. Go ahead save and close the file. Save the file with “Aid Sta # and Seq #”.
2. Then move on to RMS Express to send file.

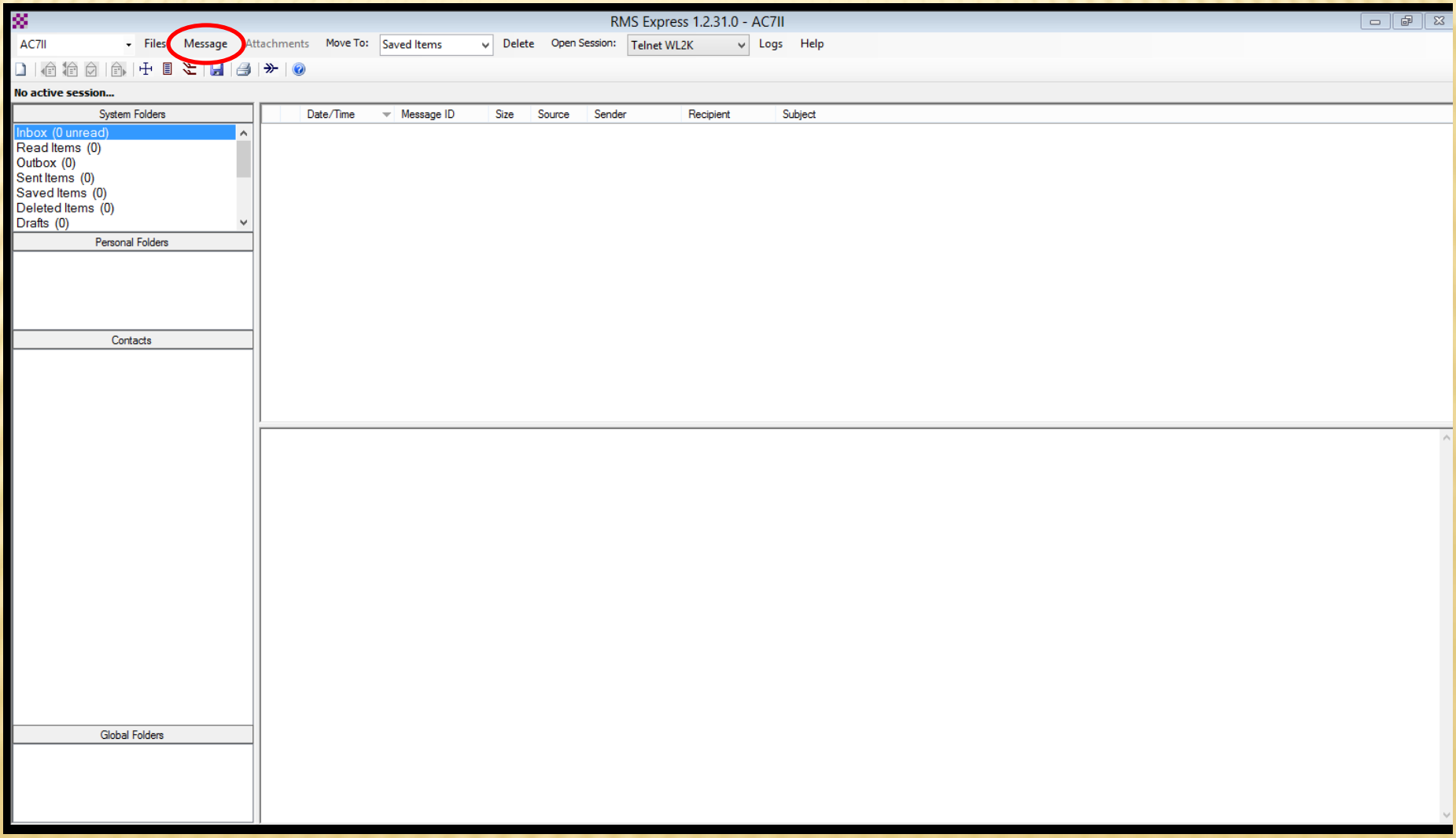


SENDING FILE TO NET CONTROL

1. Software Packet delivery of Data file.
   + RMS Express. Authors Winlink Development Team.
2. 

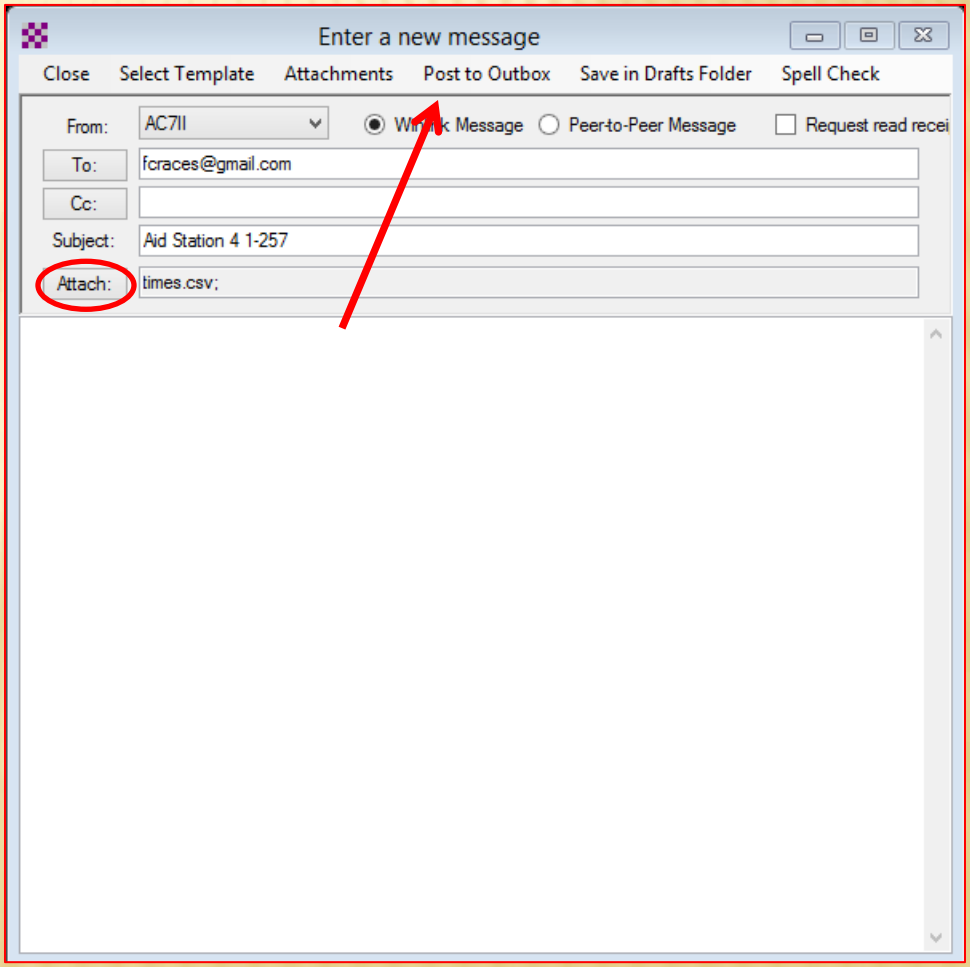
SENDING FILE TO NET CONTROL

1. Open up the Message Window.



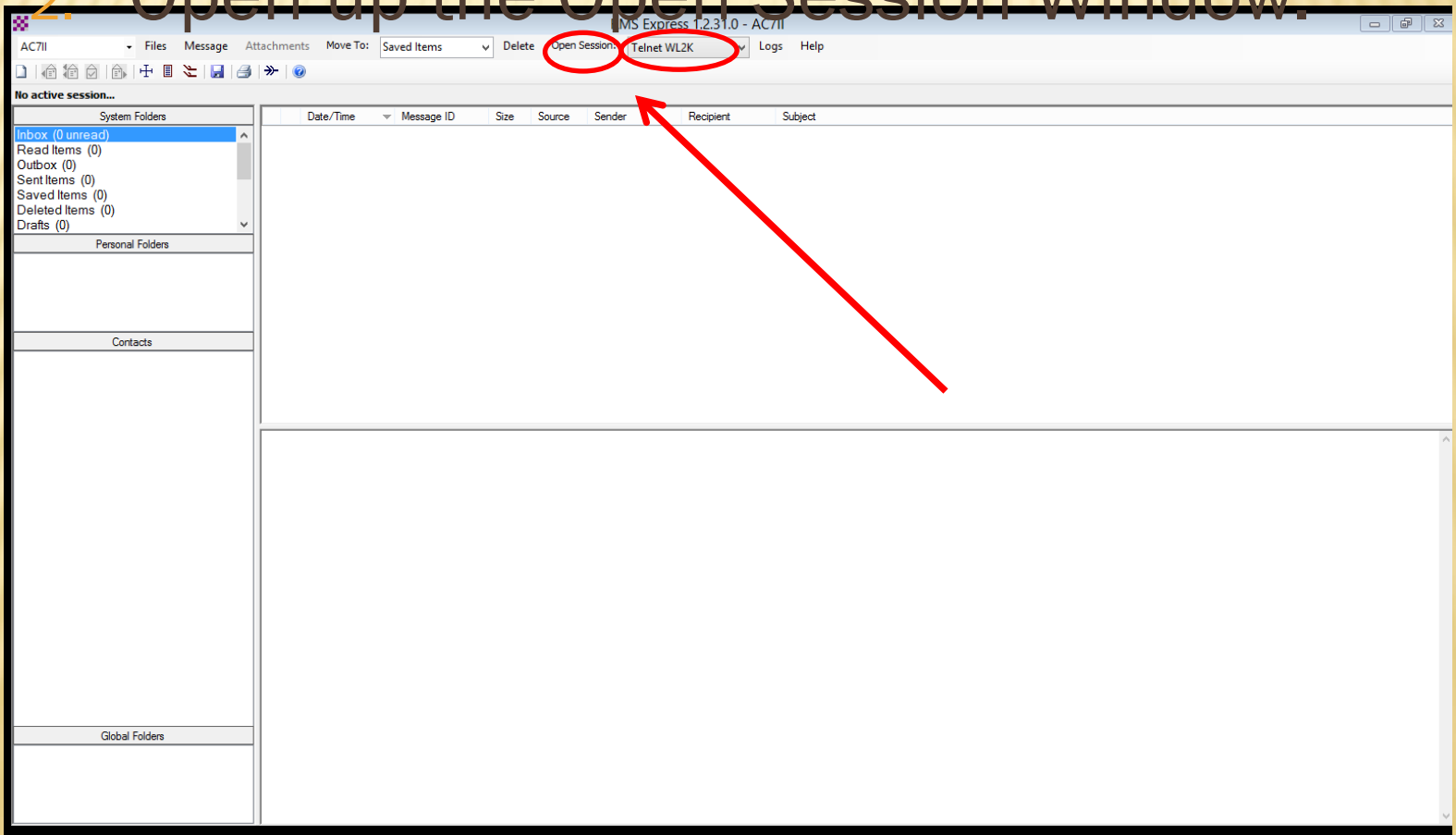
SENDING FILE TO NET CONTROL

- To: someone@gmail.com
- Subject: Aid Sta # and Seq #
- Attach: Find the File that you created and attach
- Then Click on Post to Out Box



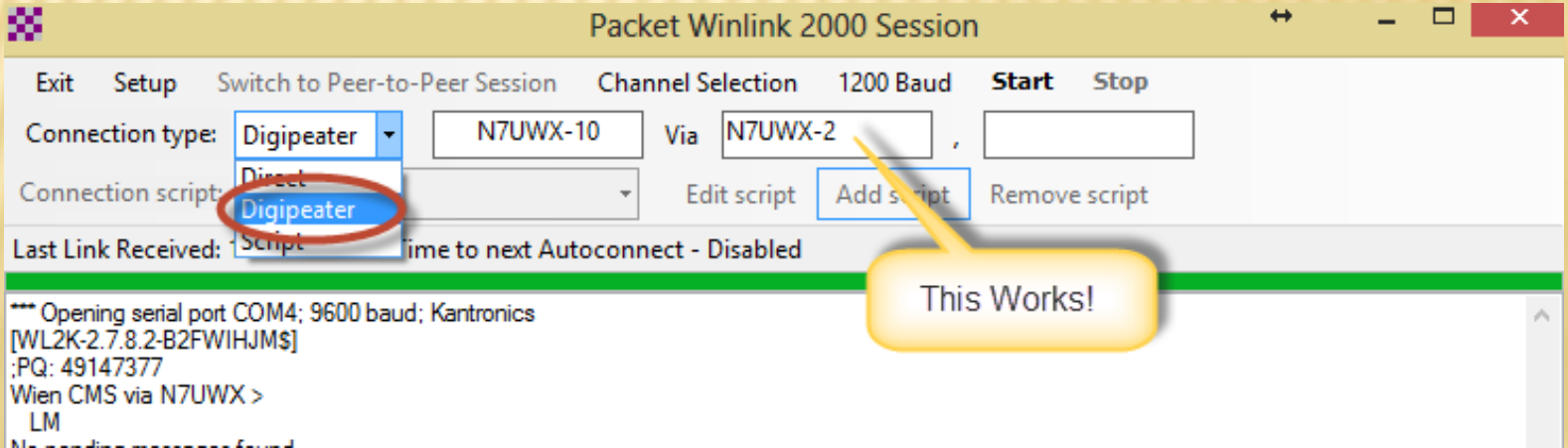
SENDING FILE TO NET CONTROL

1. Select proper transmission Telnet WL2K, Packet WL2K or WINMOR WL2K
2. Open up the Open Session Window.



SENDING FILE TO NET CONTROL

1. Select Digipeater
2. Use N7UWX-10 via N7UWX-2 this will Digipeat thru Mt Logan (N7UWX-2) then connect to The Sheriffs Office (N7UWX-10)
3. Then Click Start. This should send the File that you put n the Outbox.



PACKET/RMS EXPRESS PROBLEMS

- Time outs
  - Probably too many trying at the same time
  - Poor signal
- Email's with no or non-descriptive Subject line
  - Subject needs to be similar to file name
- Email's with the same file name every time
  - File names need to show Aid station and order sent
- Email's with no text (description)

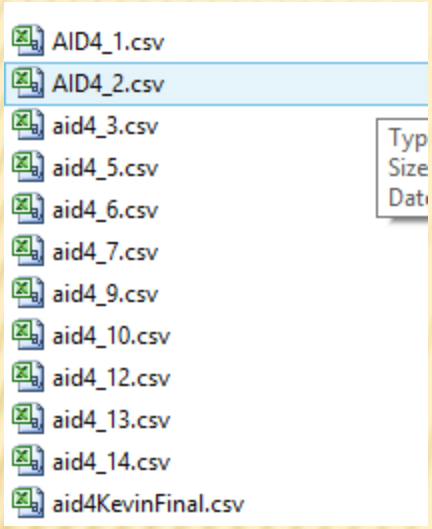
NET CONTROL DATA ENTRY PROBLEMS

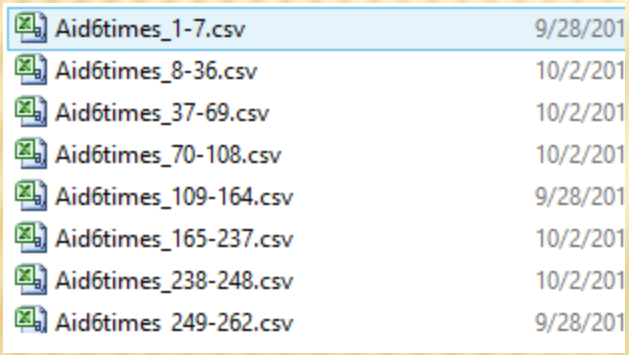
- Data Entry Was Slow
- File Names
- Subject Lines
- Others?

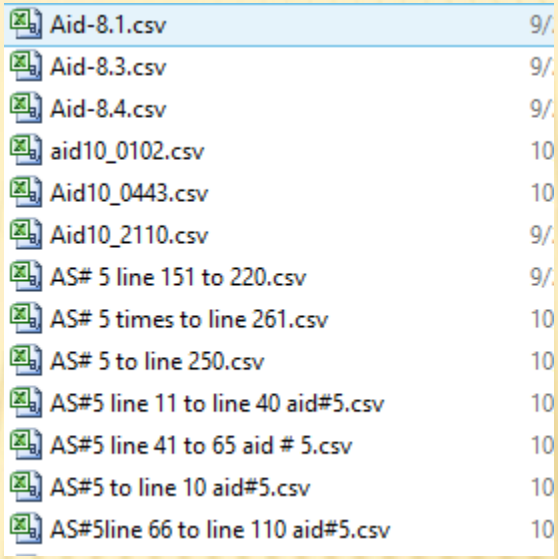
SUBJECT LINE EXAMPLES

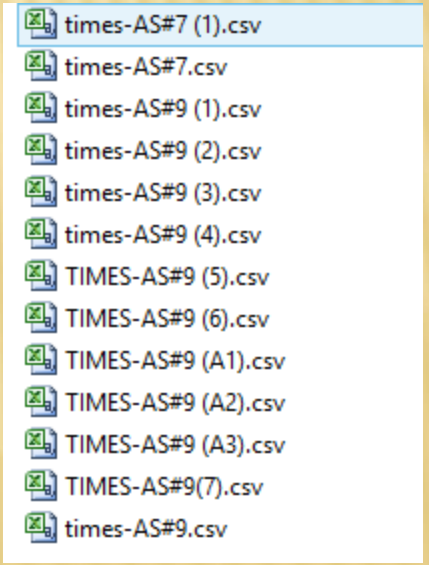
KG7AFQ, me (2)	//WL2K Final csv from Aid #13 -
KF7TDP, me (2)	//WL2K Beaver Mtn Aid 10 Email 3 - F
KG7AFL, me (3)	//WL2K Up Date - Forwarded
Josh, me (5)	Beaver Mtn Aid 10 -
KG7AFM (2)	//WL2K AS 9 packet #4 - <No message body>
KG7LBP, me (2)	//WL2K Tony Grove 241-251 - F
N7YTL	//WL2K Aid Station # 5 times to line 261 - <No message body>
N7YTL	//WL2K Aid # 5 times to line 261 - <No message body>

FILE NAME EXAMPLES









BEST PRACTICES

- Subject : AID4_1
- File Name: AID4_1
- Message Text: Any notes to pass along and Times for Aid Staion 4 #1

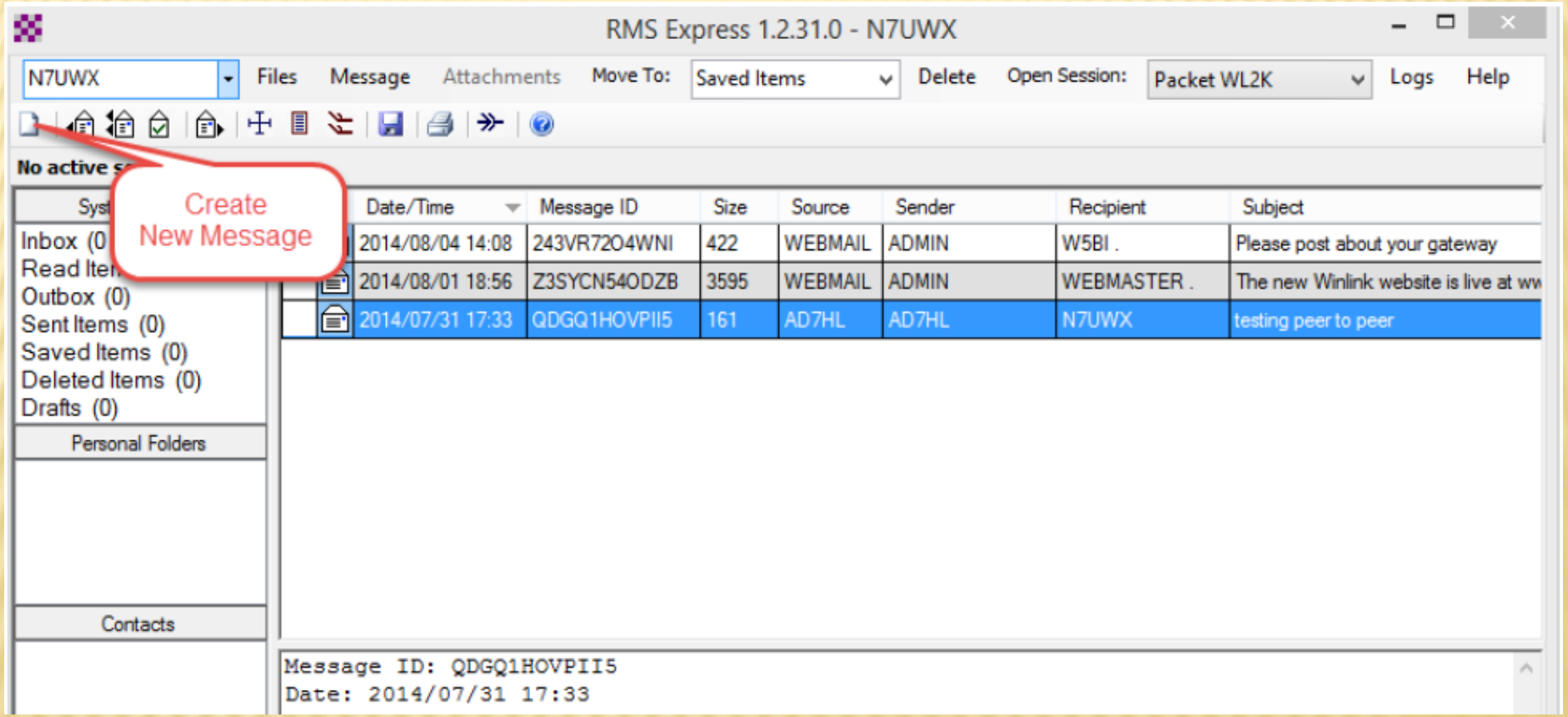
WINLINK FOR THE BEAR 100

- First of all You have to have RMS Express downloaded and installed on your computer.
  - It can be downloaded from: http://www.winlink.org/RMSExpress
- Next the frequency to use is 145.030. That is a simplex frequency.
- There is a Node on Mt. Logan. This is a Node but you can DIGIPEAT through it. Digipeater
- Digipeater callsign is N7UWX-2
- It's Node Callsign is N7UWX-6
- or an Alias of LGU2. But you will most likely not use the Node or Alias callsign unless you set up a script!

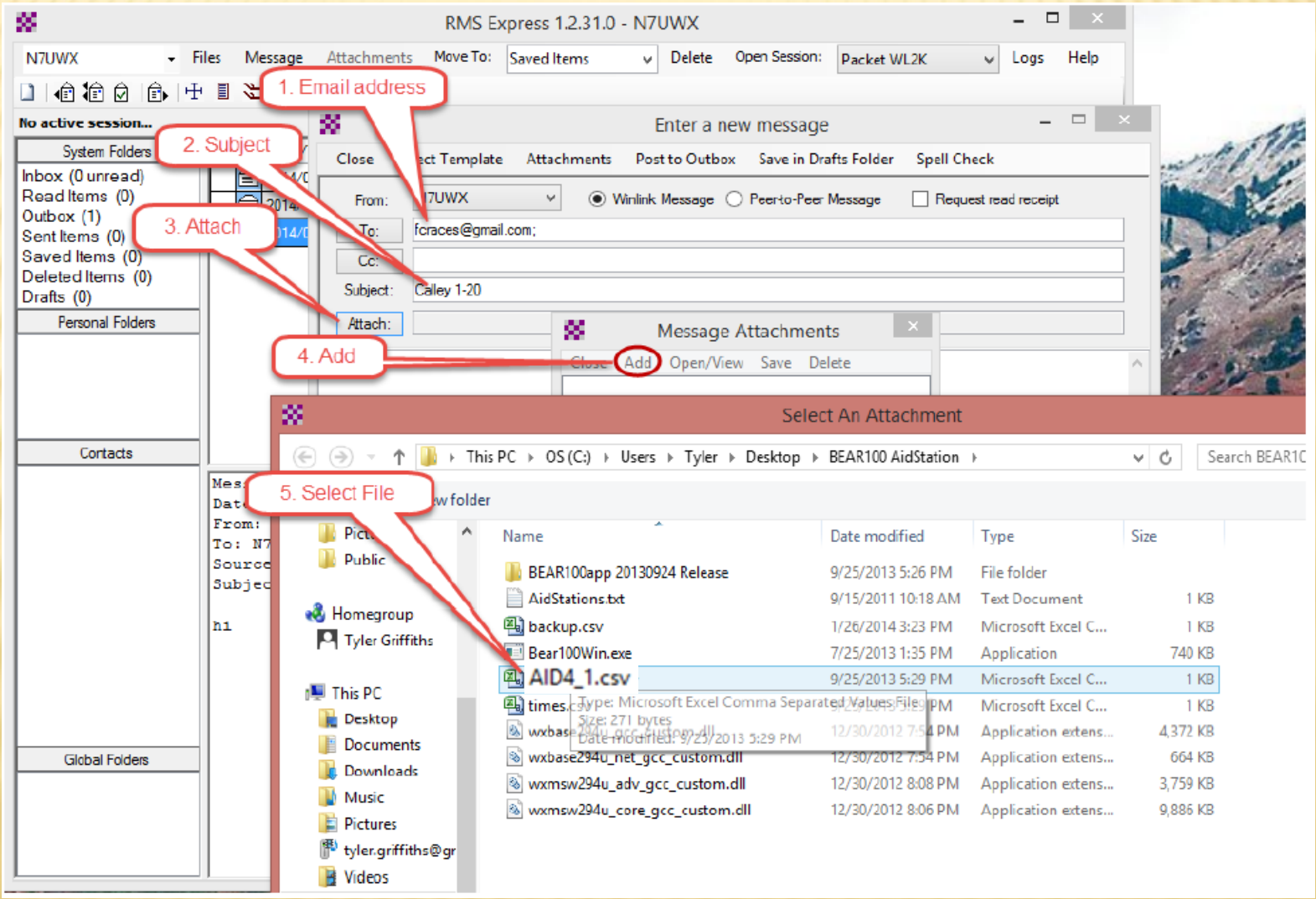
WINLINK FOR THE BEAR 100

- Next is the email address to sent these too.
  - It is: fcraces@gmail.com (may be subject to change)
- That is the email address for Franklin County RACES. You probably need to send a test
- message to that email address so it is added to your white page.

CREATE NEW MESSAGE



COMPOSING THE EMAIL WITH AN ATTACHMENT



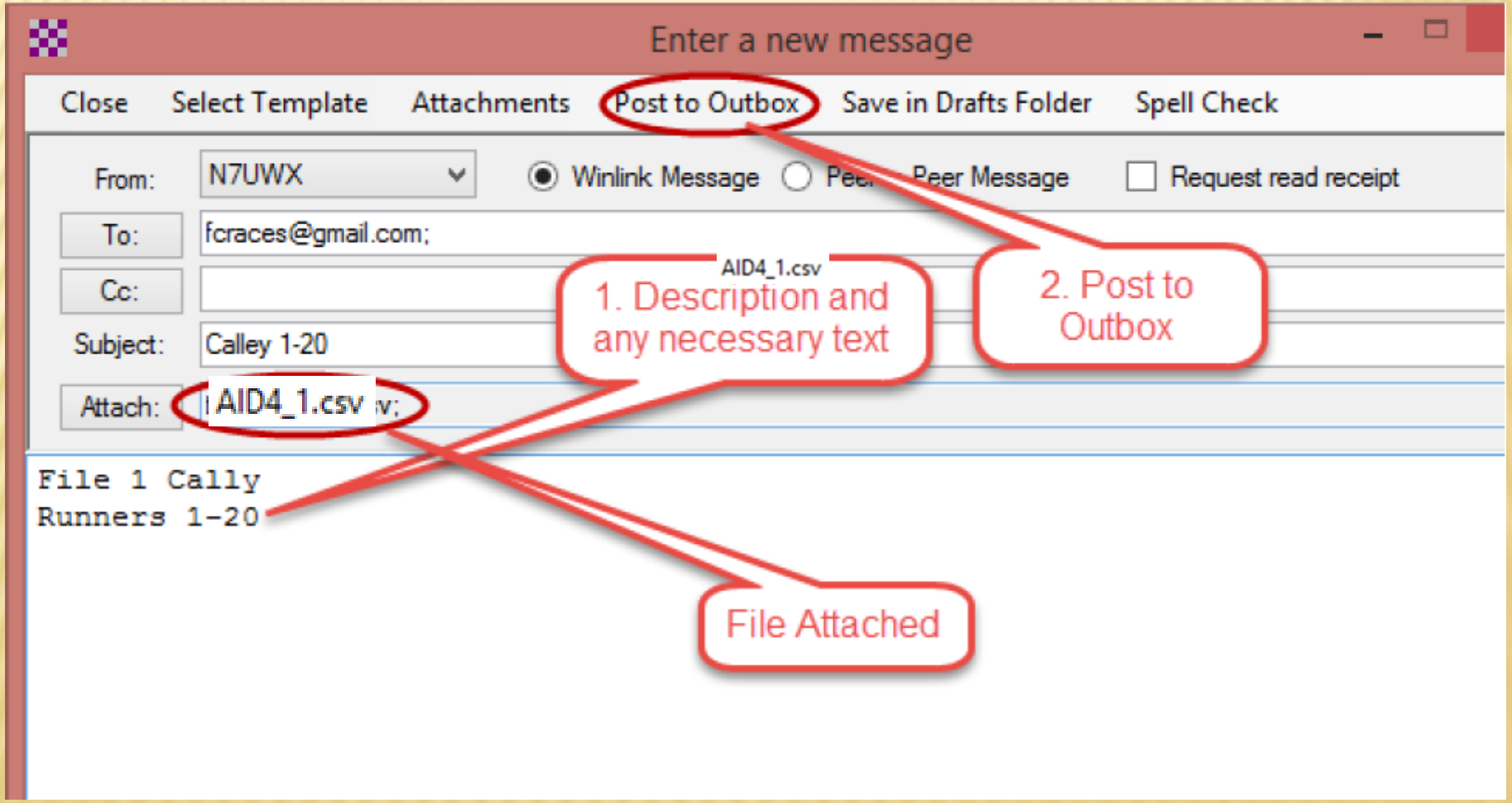
The file to be sent should be the times<aidstationidentifier_file sequence>.csv file. The backup.csv is a automatic file for saving the data every 5 minutes, so it is not the current file. The backup file might be OK for a majority of the aid stations.

In the BEAR100 program menu tabs File > Save, the default Save file name is times.csv. The aid station collecting the runner data should save the data using the menu tab File > Save, but add their aid station # to the file name before the first save (example File > Save file name:AID4_1.csv).

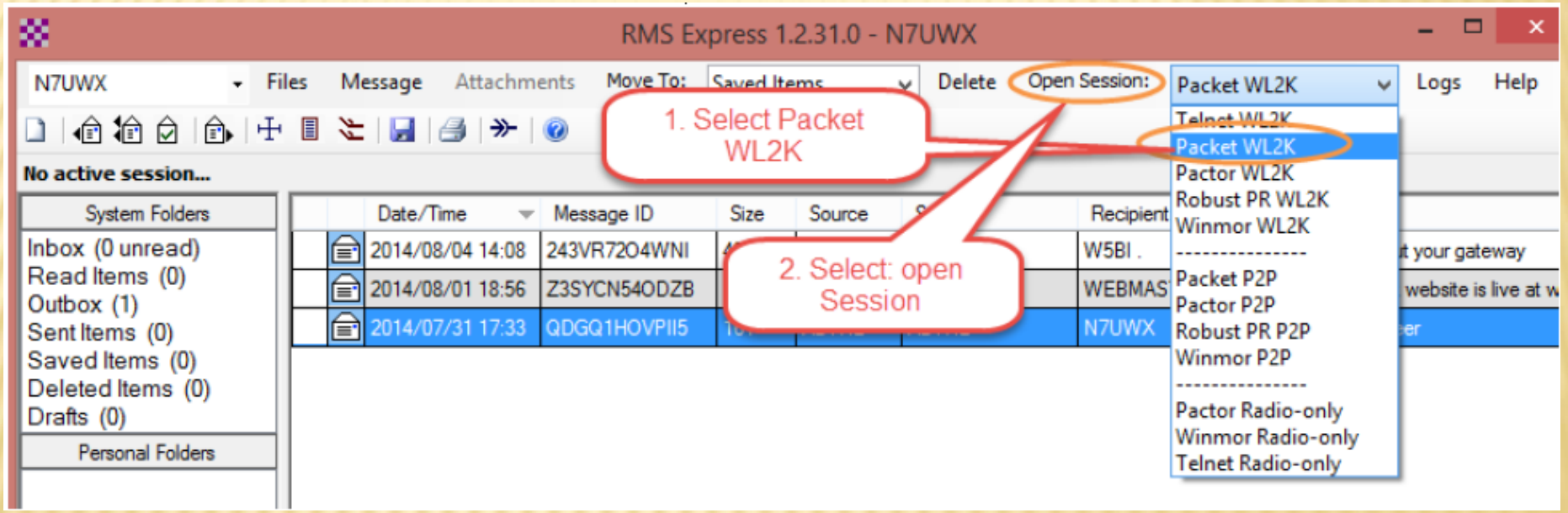
Once this named file has been saved, the same named file is used when the File > Save is again used. This method helps identifies the file name to the aid station location when it is sent in to net control. So when an aid station is ready to send the next batch of runner data, they do a File>Save to the named file (example: AID4_1.csv).

To keep track of the files to be sent, they can do a copy file AID4_1.csv and paste to the same folder location,which give them a file copy, AID4_1 – Copy (2), with a time stamp of the AID4.csv file they just saved. When they do the next copy paste, it gives them a increment of the copy (i.e Copy (3), Copy (4), etc) on each additional copy.

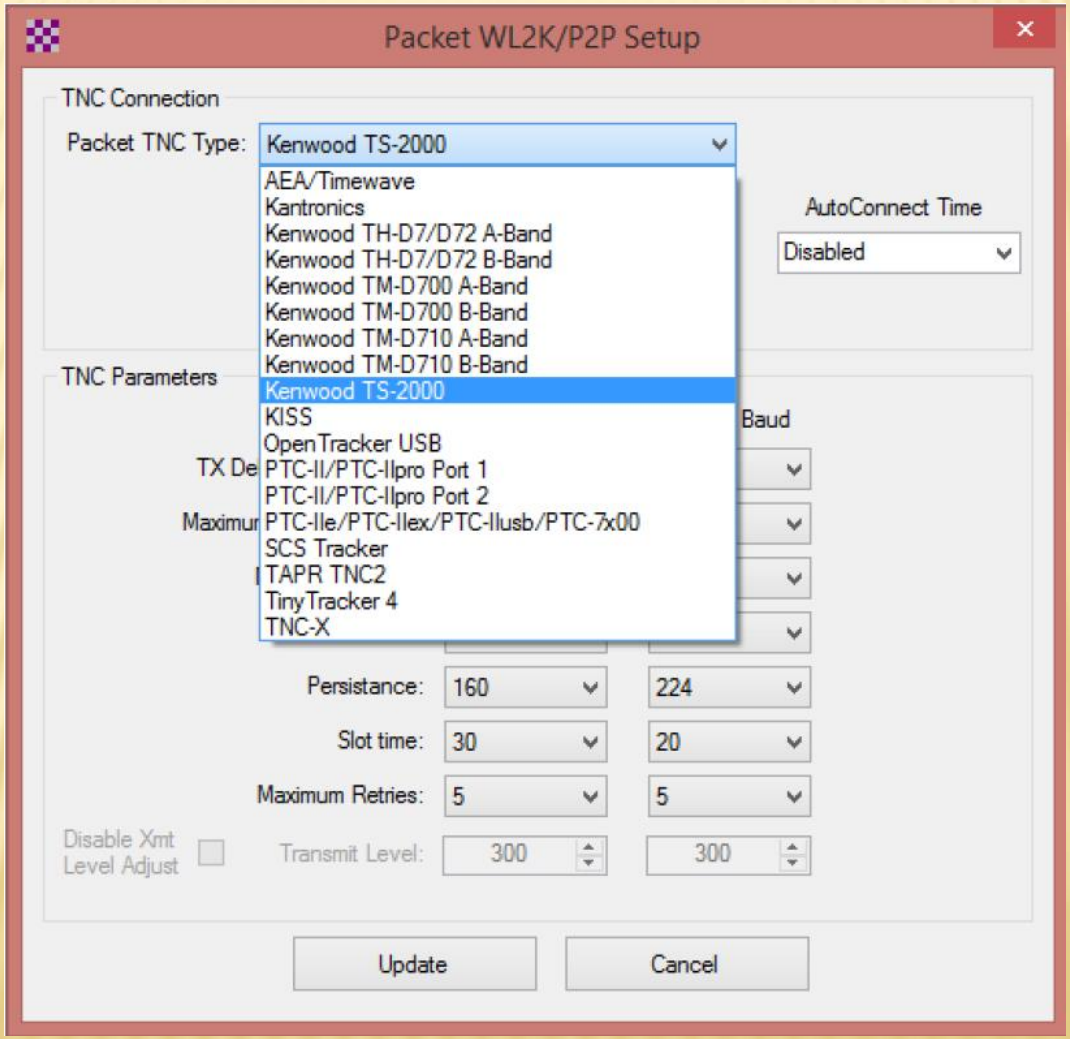
COMPOSE THE MESSAGE AND "POST TO OUTBOX"



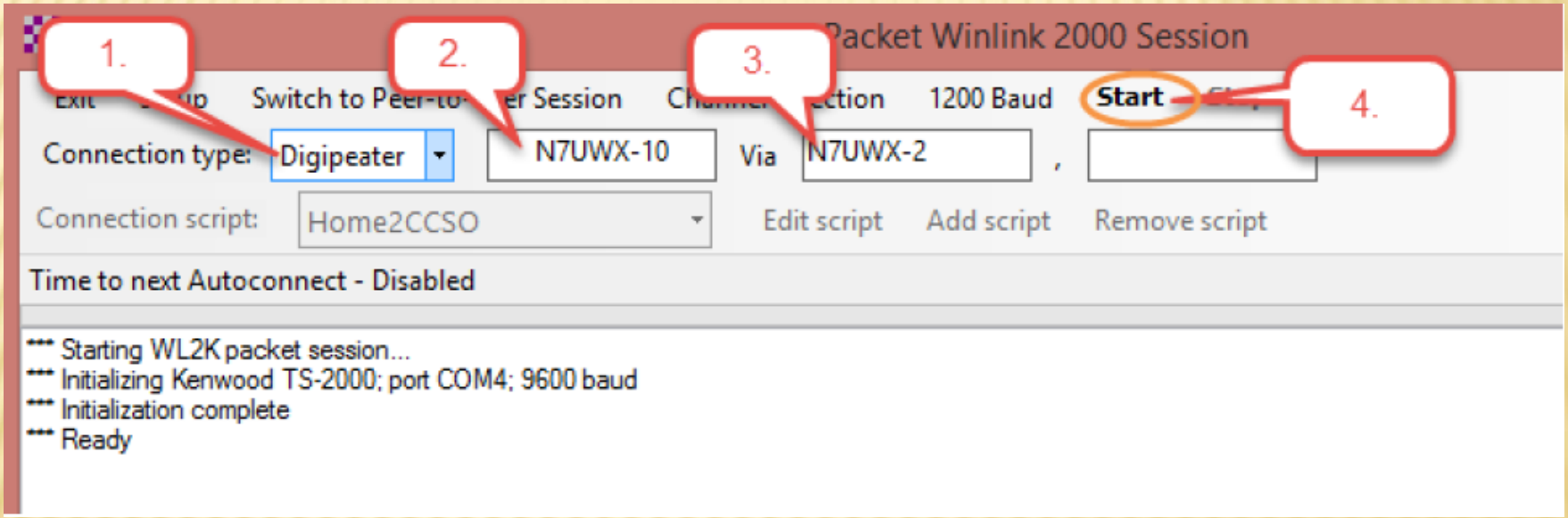
SELECT “PACKET WL2K” AND OPEN SESSION



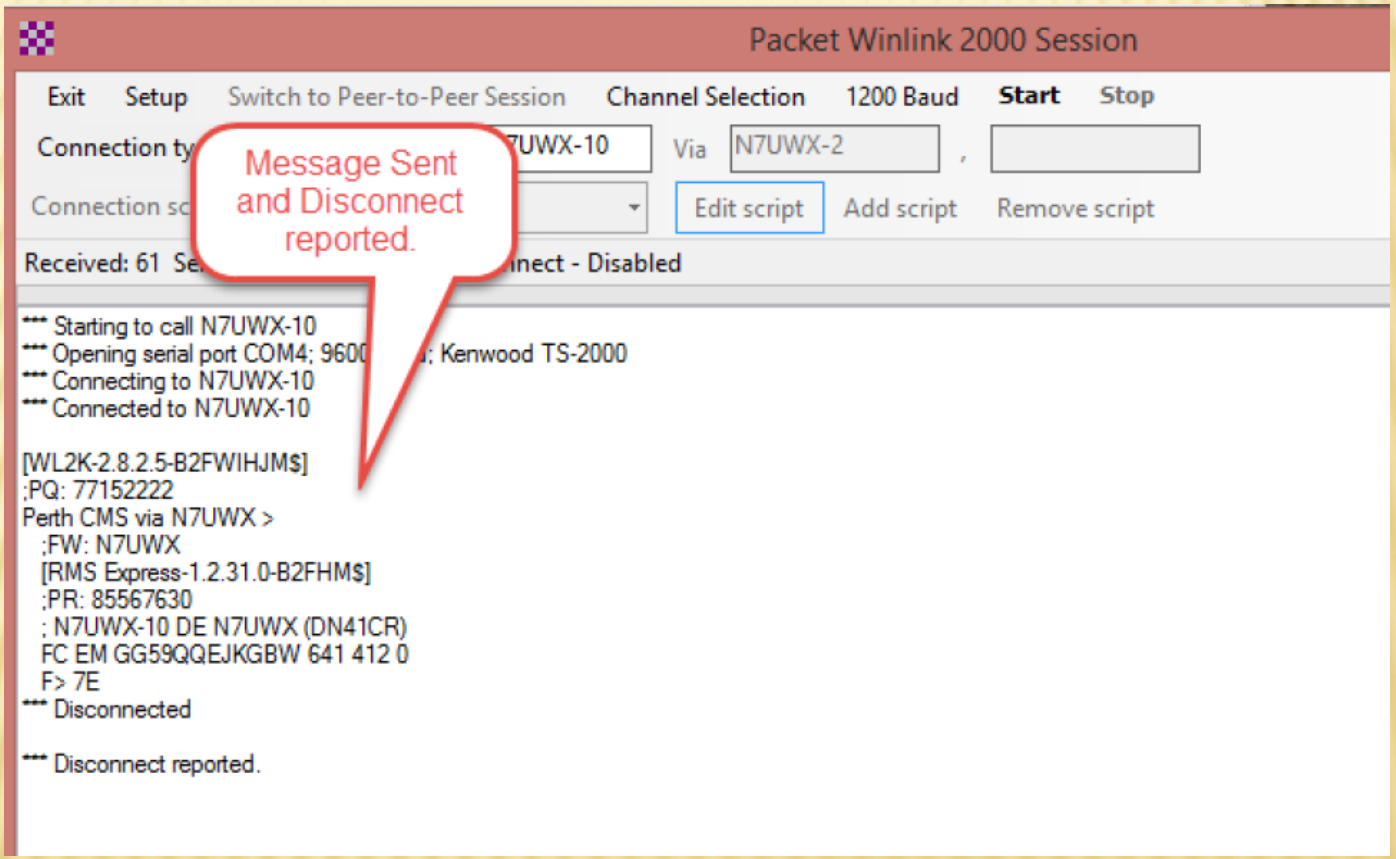
MAKE SURE YOU HAVE SELECTED THE CORRECT TNC IN THE SETUP!



SELECT “DIGIPEATER”, N7UWX10 VIA N7UWX2 AND SELECT START



MESSAGE SENT CONFIRMATION



SCRIPTS

If you want to do it the hard way, these instructions will help you create and run a script. But The

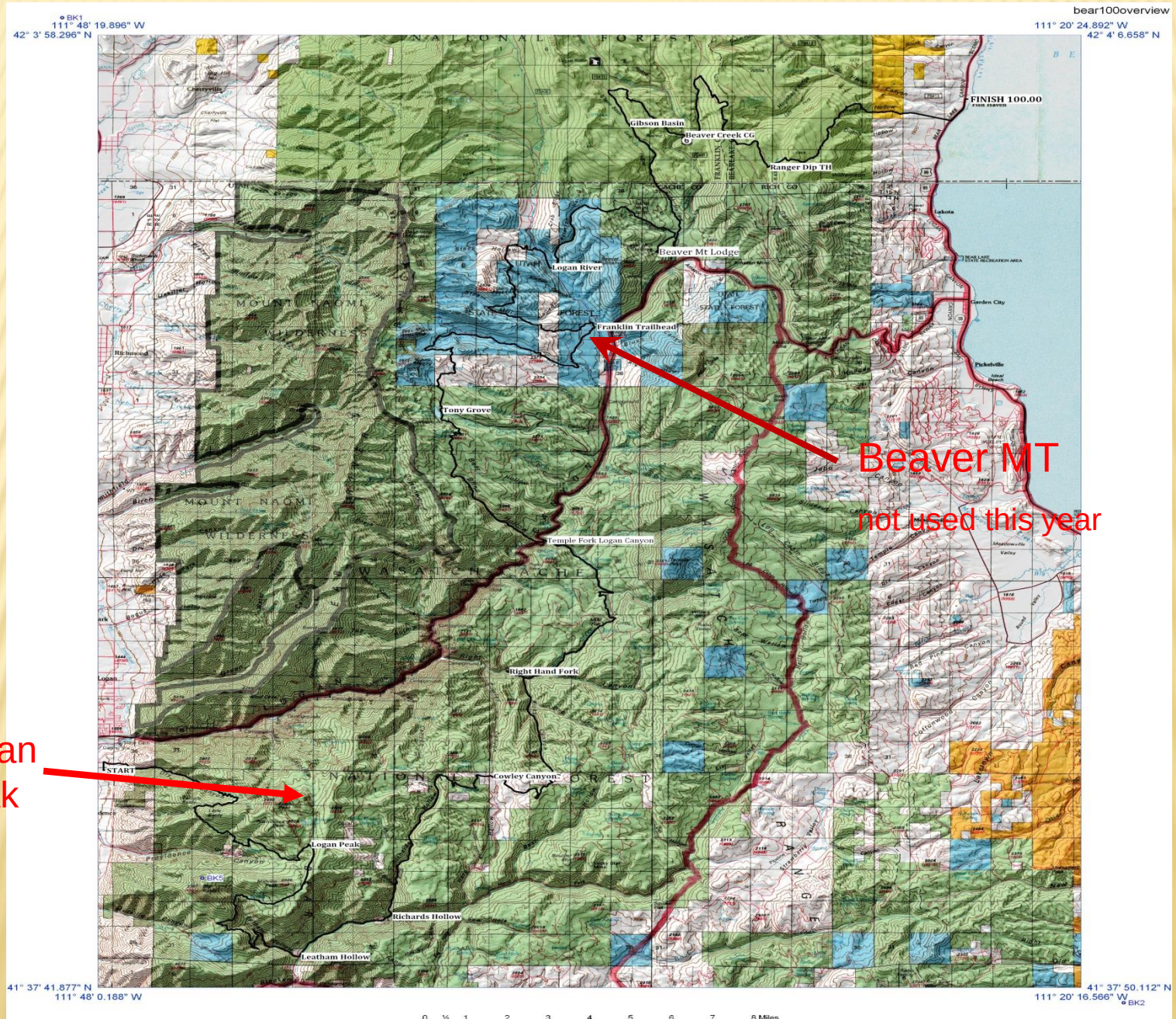
digipeater option is much easier!

https://docs.google.com/file/d/0B5zbPveIrfBwQkpLMVpJZU5ZRXM/edit?usp=sharing

USING THE KENWOOD TH-D710 FOR PACKET WINLINK

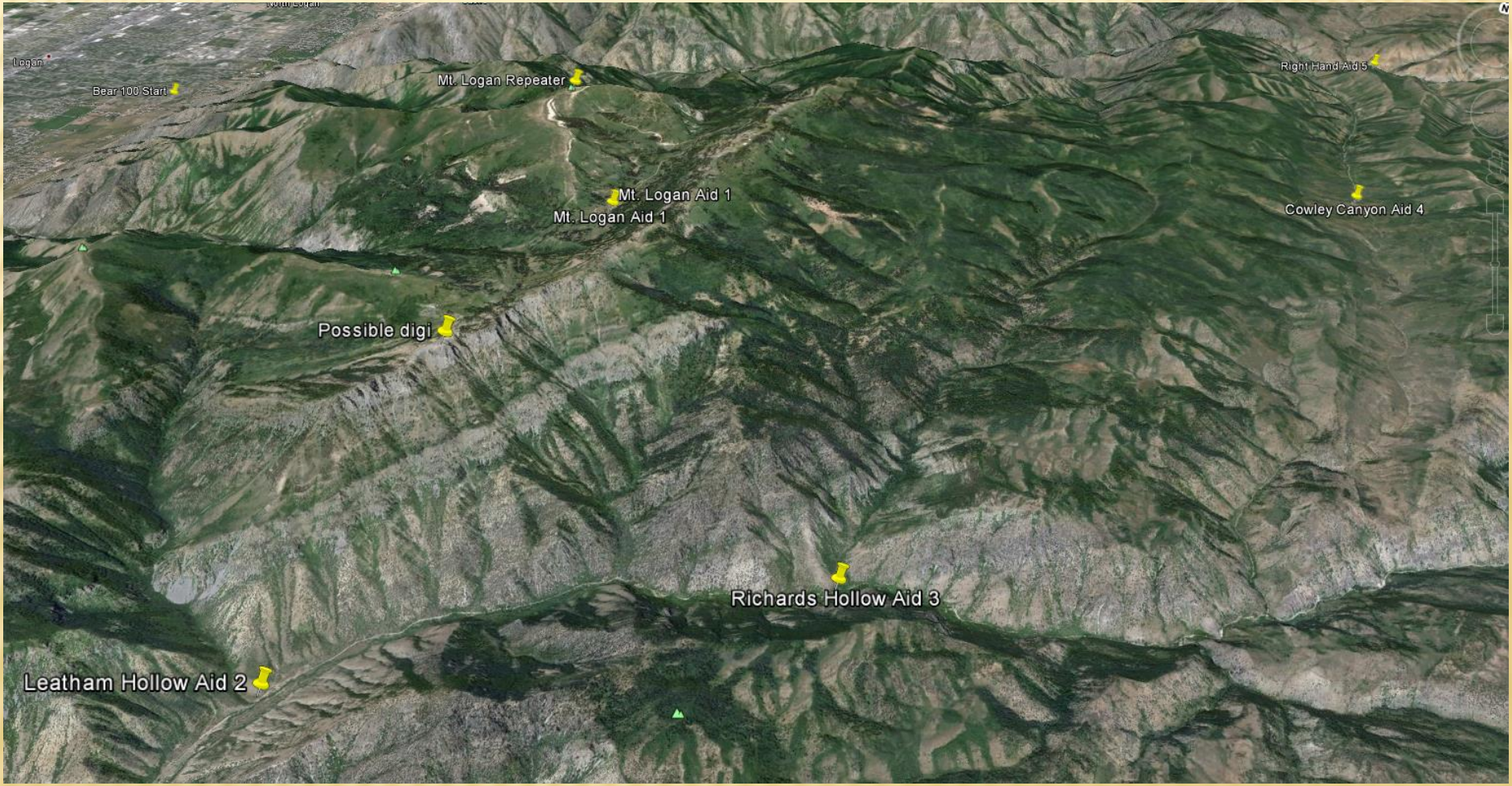
- Demo

Packet Node Locations



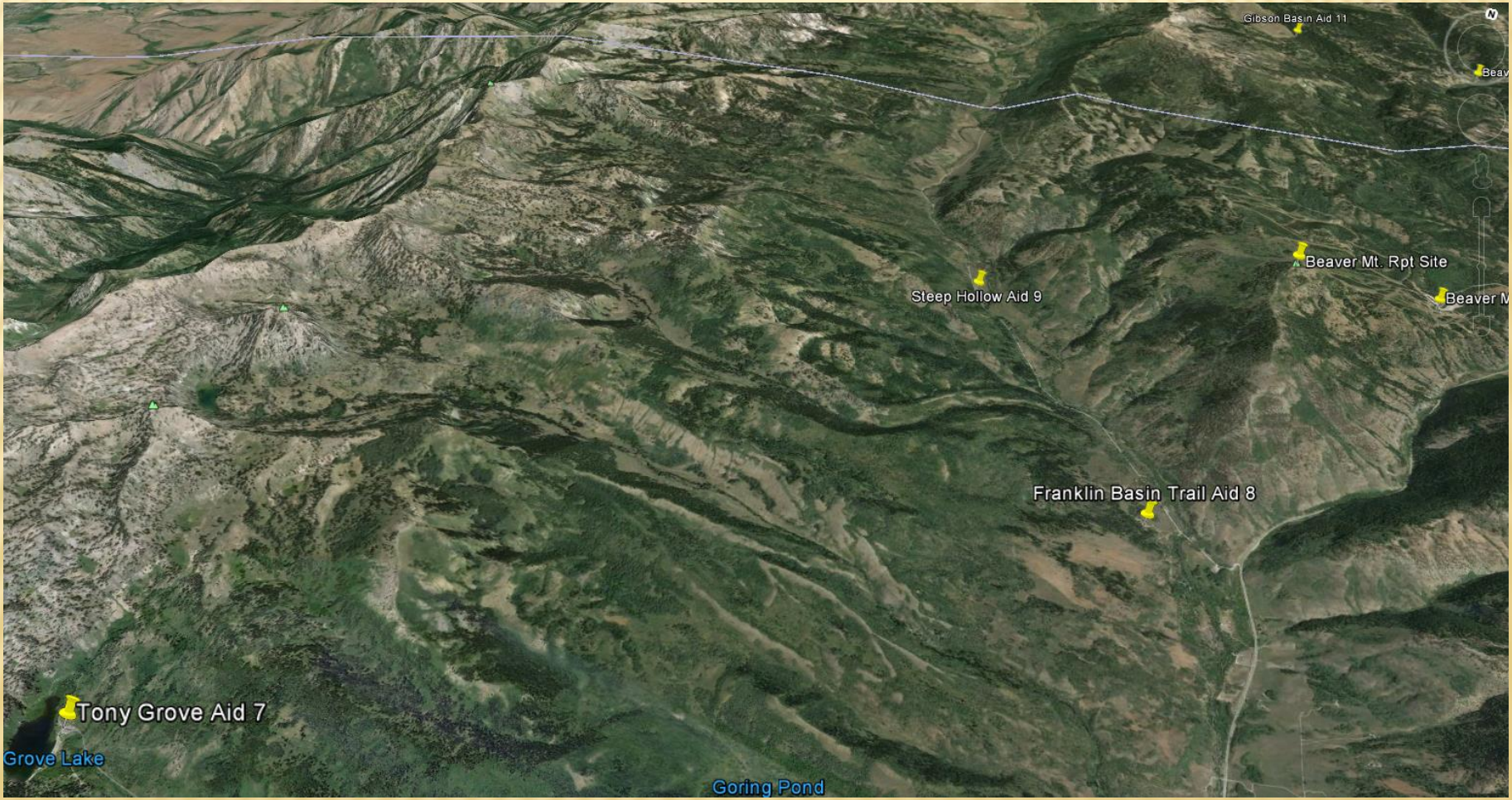
VIEW OF THE COURSE LOOKING FROM THE NORTH EAST

FIRST 6 AID STATIONS



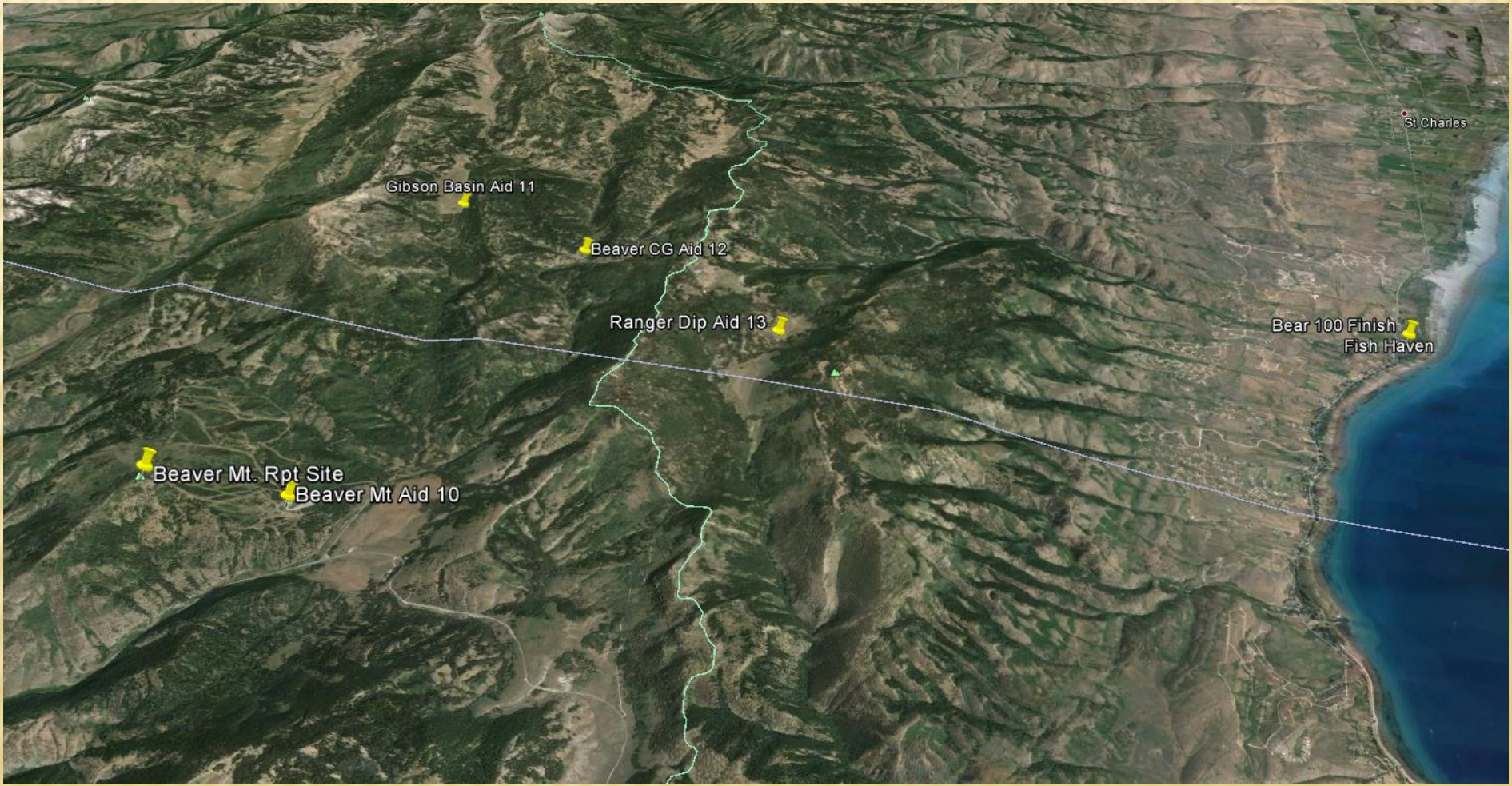
MIDDLE OF THE COURSE

NORTH END OF THE COURSE

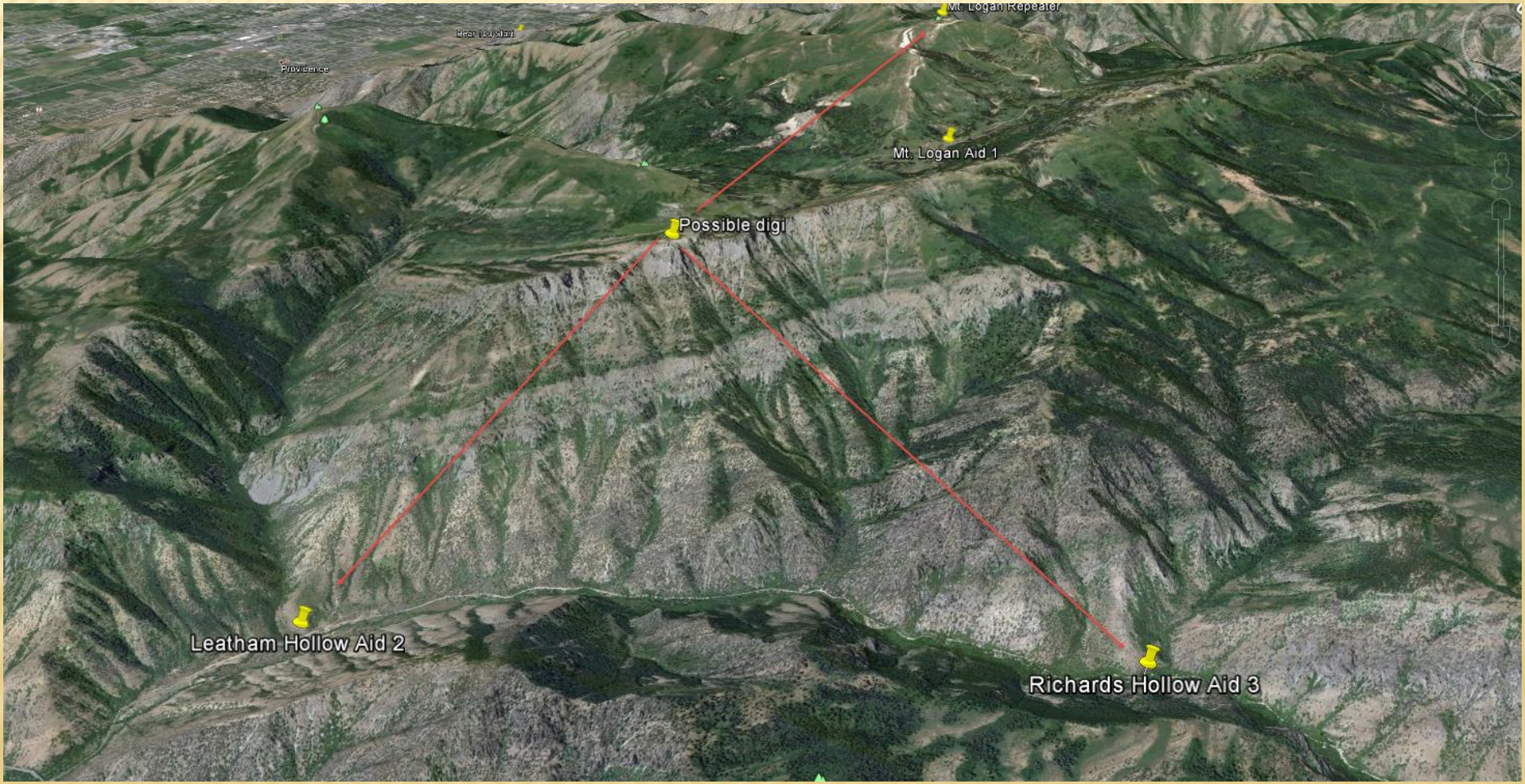


MORE NORTH END OF COURSE

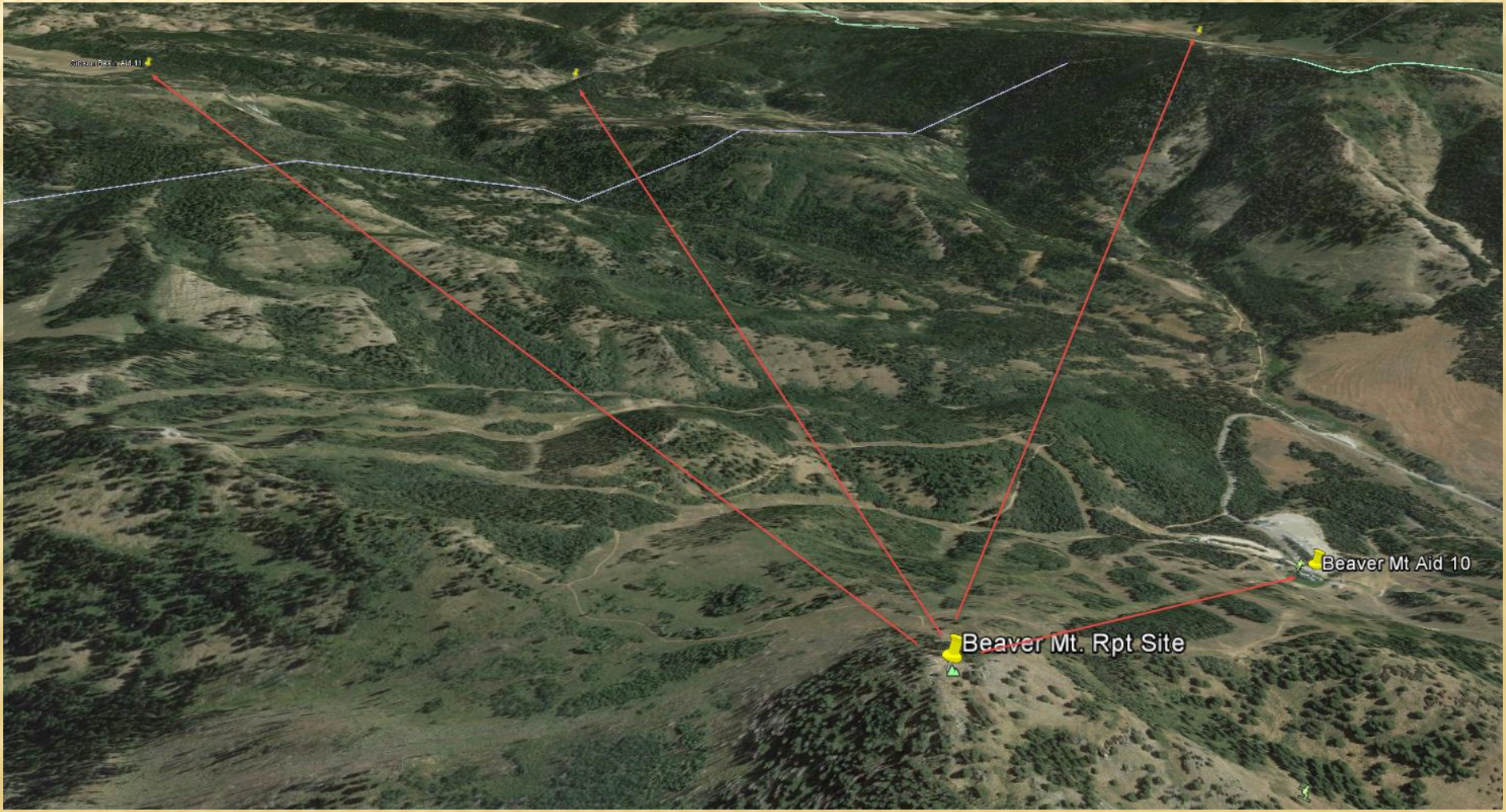
LAST FEW AID STATIONS AND FINISH



POSSIBLE PORTABLE DIGI SITE FOR LEATHAM HOLLOW (AS2) AND RICHARDS HOLLOW (AS3)



BEAVER MT. DIGI NEEDS TO BE INCORPORATED FOR THE NORTH END OF THE COURSE



FUTURE SUBJECTS

- P2P Connections
- Digipeaters
- Path/Frequency Prediction software
- Winmor
- HF

WINLINK TRAINING VIDEOS

This link will take you to a series of very good Winlink Training videos covering RMS Express.

Start with the “Cables and Connections” then “Settings and Software”. Continue on with “Part 1 thru 5”

https://www.youtube.com/results?search_query=k4ref+winlink

USEFUL LINKS

Winlink website

- http://www.winlink.org/

Excellent tutorial on getting started with Winlink

- http://www.winlink.org/webfm_send/184

Youtube videos

http://www.winlink.org/K4REF_Videos

RMS Express download site (ftp)

- ftp://autoupdate.winlink.org/User%20Programs/

Address to Grid Square converter

- http://www.levinecentral.com/ham/grid_square.php

QST May 2012 article on RMS Express for HF (p.40)

- http://www.nxtbook.com/nxtbooks/arrl/qst_201205/index.php#/42

Cable selection guide

- http://www.hamradioexpress.com/pdfzips/RASCAL_TNCable-to-transceiver-LINKs.pdf

QST July 2012 article on managing USB virtual COM ports (p.60)

- http://www.nxtbook.com/nxtbooks/arrl/qst_201207/index.php#/68

- Comments?
- Questions?