



Establishing an I-gate station using XP laptop with Direwolf and APRSISCE/32

- Note this only connects audio out from radio, do not want radio to transmit APRS data from internet.
1. Power up laptop, start Direwolf. Radio with SignalinkUSB should be on.
 2. Should see APRS traffic on Direwolf window.
 3. Start APRSISCE/32
 4. Zoom to appropriate map view
 5. Pull down "Configure" tab, select "Ports" then select Direwolf (ignore others)
 - A. check "RF to IS"
 - B. check "Me not 3rd"
 - C. check "Enabled"
 - D. check "Bulletin/Obj"
 - E. check "Messages"
 - F. check "Xmit Enabled"
 - G. check "Beacon"
 - H. check "Telemetry"
 - I. uncheck all others
 Click "Accept" when done.
 6. Pull down "Enables" tab
 - A. check "APRS-IS Enabled"
 - B. check "Beaconing Enabled"
 - C. check "Internet Access"
 - D. check "Telemetry Enabled"
 - E. uncheck all others
 7. Pull down "Enables" tab to "Ports," check "All," "Receive Only," and "Direwolf" uncheck all other ports
 8. Enable internet access on laptop (or PC) and should be I-gating.

Drawing Index:

PM-E1000	General Wiring Diagram
PM-E1001	Primary Air-to-Ground Wireless Video Wiring Diagram
PM-E1002	Secondary Air-to-Ground Wireless Video Wiring Diagram
PM-E1003	I-Gate Station Wiring Diagram
PM-E1004	UHF Wireless Video Wiring Diagram
PM-E1005	Video Receive, Select, and Stream Wiring Diagram
PM-E1006	GPS and PulseOx to APRS Transmitter Wiring Diagram
PM-E1007	Weather Station Wiring Diagram
PM-E1008	Jumper 2-Way Radio Communications Wiring Diagram
PM-E1009	Jumper HF Communications Wiring Diagram
PM-E1010	Slow Scan Television SSTV Camera Wiring Diagram

Establishing an I-gate station using Mac laptop per Michael NE6RD

1. Log on to laptop.
 2. Start Terminal window, type in "xastir" (xastir runs in X11).
 3. Setup location for I-gate station:
 - A. bring NE6RD, using zoom out and arrows, to show desired location.
 - B. move mouse to location, right click, "move my station here"
 4. Yaseu VX-5.
 - A. red button power on
 - B. position bump on left knob pointing down (puts squelch in right place)
 - C. frequency to 144.330 MHz
 Note: when powering down I-gate hardware, use red button to turn off VX-5.
 5. Connect to hotspot via "System Preferences"
 - A. Select "Network"
 - B. Turn Wi-Fi On
 - C. Log into hotspot
 6. Pulldown "Interface" Interface control,
 - A. Device 1: click "interface server" (start)
 - B. Device 2: click "KISS TNC" (start)
 7. If need to set serial-to-usb (serial port), click DataSender

On DataSender, click "connect," APRS runs at 4800 baud.
 8. To see what's going on, pull down "View" and select "incoming data" and should see "Display Packet Data" with raw APRS text (example below).
- Note: Reboot laptop between each jump as software gets finicky.**
9. After reboot, may need to do a rescan on Datasender.

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TNC Data only Net Data only TNC and Net Data Station Capabilities
2:TNC-> WA6TS-1>APU2SN,WIDE2-1:IGATE,MSG_CNT=34,LOC_CNT=56
2:TNC-> W60TH-9>SM3YRW,WR6ABD*,WIDE2-2,GATE:'1K'115k/]'5L}
2:TNC-> W6TZ1-1>APGAR,K6IXA-3*,N6ZX-3*,WIDE1*:0112318z3608.50N/12021.59W_001/000g00
2:TNC-> KEG5TH-9>SVUJWV,WR6ABD*,WIDE2-1:'2Y_nIQ/'"3u)147.180MHz T094 +060_%
2:TNC-> AEBL-1>APN382,N6ZX-3*,WIDE2*:13751.85NS12216.08M#PHG53604/W2,NCAn,Downtown
2:TNC-> W4KEL-7>S7RRRV,WIDE1-1,WIDE2-1:'2kx!10k/'"4'}&2k]'v!1uP!13
2:TNC-> W4KEL-7>APT314,WIDE1-1,WIDE2-1:W4KEL-7 :UNITS,Volts,Deg,C
2:TNC-> W4KEL-7>APT314,WIDE1-1,WIDE2-1:
2:TNC-> W4KEL-7>APT314,WR6ABD*,WIDE2-1:W4KEL-7 :EQNS,0,0,0,0293,0,0,0,489,-273,15
  
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REV	DATE	REVISION DESCRIPTION	DRAWN	APP
2	12-6-17	Added XP laptop with DireWolf and APRSISCE/32 option.	MF Wright	
1	10-15-15	Revised instructions.	MF Wright	
0	10-13-15	initial release	MF Wright	

PARACHUTE MOBILE "In The Air, On The Air" www.parachutemobile.org				
Parachute Mobile Communication Systems I-Gate Station Wiring Diagram				
DRAWN	CHK	INDEX	FSCM. NO.	LIMITS UNLESS NOTED
MF WRIGHT				
DESIGN ENGR	TEAM POSITION		DATE	
M. PECHNER	Video Ops		12-6017	
NEXT ASSY	USE ON	CONSULTANT	AS DWG NO	REV
		M. PECHNER	Sheet 1 of 1	
APPLICATION		TEAM COORDINATOR	SCALE	
		R. FENN	NONE	
PM-E1003				2

- When devices in I-gate box are working:
- VX5 green LED will be on when receiving data.
 - OT+ green LED will be on when receiving data.
 - Triplite Keyspan serial-to-USB green LED will be blinking.

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 APPLY
- 2