

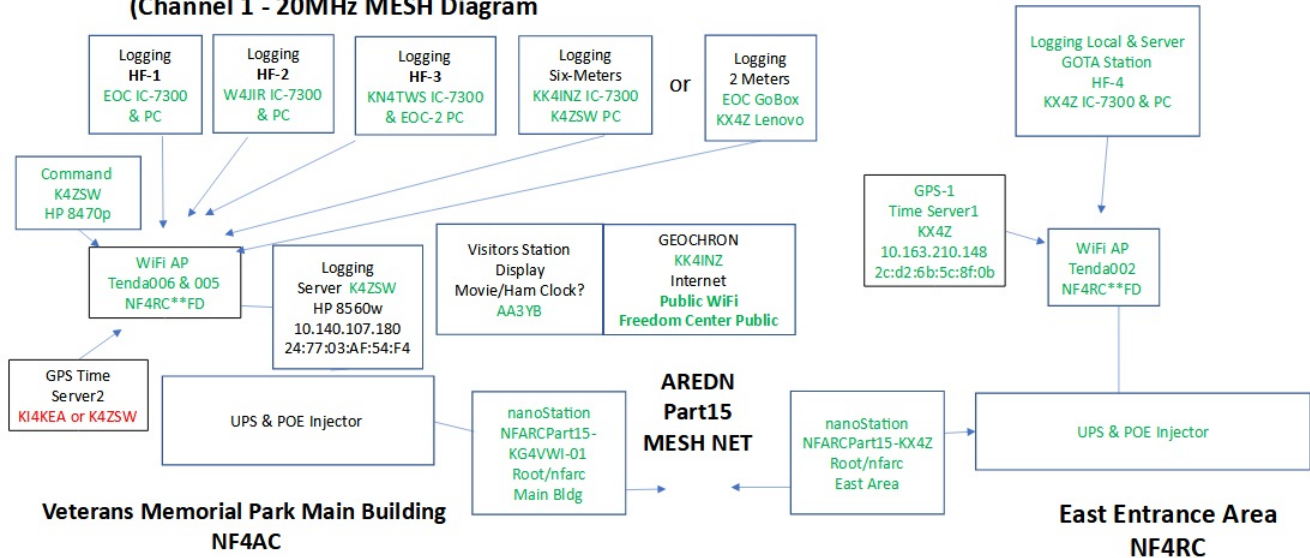
NETWORKING CHEATSHEET ARES(R) NF4RC 2023 FIELD DAY

Network Overview Diagram:

2023 ARRL Field Day – NFL

AREDN Part15

(Channel 1 - 20MHz MESH Diagram)



AC Circuits?? Power Strips?? UPS??

TWO LOCATIONS: (Private IP network)

Veterans Center (indoors)

Nanostation NFARC Part 15 KG4VWI-01

WIFI (access point) TENDA 005 (passphrase NF4RC**FD)

Connect all applicable indoor veterans center field day logging computers to TENDA 005

Logging server goes on THIS network: IP # 10.140.107.180 ("K4ZSW")

RV Travel Trailer / GOTA STATION / HF#4

NanoStation NFARC Part15 KX4Z

WIFI (access point) TENDA 002 (passphrase NF4RC**FD)

Connect GOTA/HF#4 logging computers to TENDA 002

Be certain to connect GPS-1 to TENDA002 in order to get correct ip number: 10.163.210.156

GPS-1 2023 TIME SERVER	EVOLVE III laptop computer with GPS dongle
GPS DONGLE	insert into USB port on left side of computer near power connection
USER	Field Day (no password required)
NETWORK	<p>MUST connect to Tenda002. This may be automatic or you may have to manually select that wifi connection. Passphrase is NF4RC**FD Laptop should get the ip number 10.163.210.148</p> <p>PING RESPONSE: I have not yet figured out how to get this laptop to respond to ping requests.</p>
BACKGROUND INFORMATION: w32tm (Windows Time Service)	<p>This is the internal Windows time software that provides the ntp server. This runs automatically. DO NOT RUN DIMENSION4 as it will try to convince you to turn this off. Dimension4 has been removed from this computer. Do not reinstall Dimension4.</p> <p>If this servis is accidentally turned OFF somehow, the other Dimension4 clients will report that the server is "in an alarm state." If this happens you will need to use advanced Windows skills to turn this service back on.</p>
USB PORTS	Avoid using any other USB devices. There is something flakey with this computer handling multiple USB signals.
DONGLE READING PROGRAM: GPSTime	<p>Public domain software that reads the GPS dongle and uses it to update the laptop system clock. The system clock is what is used for time by the w32tm ntp server. The update occurs once every minute and has some JITTER in it. Make sure the GPS dongle has a clear view of the sky.</p> <p>You must manually start this software when the computer is turned ON, and any time it fails. Procedure: RIGHT CLICK the icon for GPSTime and then choose "run as administrator". This will use the default configuration: Port 8 Baudrate 4800</p> <p>(If you start it <i>not</i> as administrator you will need to set those values in "CONFIG" or it won't find the GPS Dongle)</p> <p>Press Start to start the system. WAIT, be patient. It may take a minue to reply that it has read the dongle::</p> <p>"Clock last updated by GPS at....."</p> <p>If this loses connections to the USB port, you'll have to close the program and restart it. This can happen occasionally. The ntp time server still operates, just uses the time of the laptop system clock.</p>

LOGGING SERVER 2023	Charcoal Gray ELITEBOOK owned by K4ZSW
USER	Field Day (Password is listed on sticker on the computer)
NETWORK	MUST connect to Tenda005. This may be automatic or you may have to manually select that wifi connection. Passphrase is NF4RC**FD Laptop should get the ip number 10.140.107.180 SERVER NAME is Logging-Server
N3FJP	Logging Software. Must point to this computer Logging-Server as the logging system. The Logging Server should respond to either the Name or the IP address
BACKUP DRIVE	This computer requires a USB Thumb Drive for G: to allow BACKUP of the Logging Database

CW COMPUTER SETUP

Network	Must be connected to either Tenda 002 or Tenda 005																																						
NTP Server:	10.163.210.156																																						
N3FJP Logging:	Logging-Server or 10.140.107.180																																						
N3FJP Setup	BE CERTAIN MODE CW IS SELECTED IN N3FJP OR OPTIONS FOR CONTROL MAY NOT BE APPROPRIATE.																																						
	BE CERTAIN THAT THE WINKEYER MIC PLUG AND CW KEY PLUG ARE INSERTED PROPERLY INTO THE 7300																																						
	<p>1. In order to be able to send canned scripts, N3FJP requires CAT control of the trasnceiver. This cannot be shared with FLDGI or WSJT-X -- so expect to have to stop those programs.</p> <p>2. In order to use the WINKEYER, you must enter the</p> <p style="padding-left: 20px;">SETTINGS TRANSMIT CW SETUP</p> <p>and click CONFIGURE WINKEYER and then OPEN the connection to the proper COM port.</p> <p>3. Rig control from N3FJP must also be setup.</p> <p style="padding-left: 20px;">SETTINGS RIG INTERFACE</p>																																						
	Be sure to pick a CW technique in N3FJP Logging!																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">RUNNING CQ</th> <th colspan="4" style="text-align: center;">HUNT & POUNCE</th> </tr> <tr> <th style="text-align: center;">F1</th> <th style="text-align: center;">F2</th> <th style="text-align: center;">F3</th> <th style="text-align: center;">F4</th> <th style="text-align: center;">F5</th> <th style="text-align: center;">F6</th> <th style="text-align: center;">F7</th> <th style="text-align: center;">F8</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">CQ</td> <td style="text-align: center;">CATCH</td> <td style="text-align: center;">EXCH</td> <td style="text-align: center;">QRZ?</td> <td style="text-align: center;">Pounce</td> <td style="text-align: center;">QSL/ Exch</td> <td style="text-align: center;">AGN</td> <td style="text-align: center;">WHO?</td> </tr> <tr> <td style="text-align: center;">CQ FD DE NF4AC</td> <td style="text-align: center;">\$ 4F NFL BK</td> <td style="text-align: center;">4F 4F NFL NFL</td> <td style="text-align: center;">QSL TU QRZ NF4AC FD</td> <td style="text-align: center;">NF4AC</td> <td style="text-align: center;">QSL 4F 4F NFL NFL</td> <td style="text-align: center;">AGN?</td> <td style="text-align: center;">\$? AGN PSE</td> </tr> </tbody> </table>								RUNNING CQ				HUNT & POUNCE				F1	F2	F3	F4	F5	F6	F7	F8	CQ	CATCH	EXCH	QRZ?	Pounce	QSL/ Exch	AGN	WHO?	CQ FD DE NF4AC	\$ 4F NFL BK	4F 4F NFL NFL	QSL TU QRZ NF4AC FD	NF4AC	QSL 4F 4F NFL NFL	AGN?	\$? AGN PSE
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F11 - DUPE																																							

RTTY COMPUTER SETUP

Network	Must be connected to either Tenda 002 or Tenda 005						
NTP Server:	10.163.210.156						
N3FJP Logging:	Logging-Server or 10.140.107.180						
FLDGI SETUP	1. FLDGI must have CAT Control, typically with HAMLIB. 2. <i>Cannot have N3FJP Logging system having control</i> (e.g. for CW) Hence may need to disconnect N3FJP Rig Interface						
	Be sure to pick a DIG technique in N3FJP Logging!						
	CLICK on CALL or Portions of EXCHANGE to capture!						
RUN CQ	ANS	EXCH	CFRM QRZ	POUNCE	EXCH		LOG CLR
CQ		CFRM	QRZ?	SEC	CLASS		
CQ FD DE NF4AC	<CALL> DE <MYCAL L> 4F NFL	<CALL> DE <MYCALL > 4F NFL	QSLTU QRZ DE <MYCALL>	NF4AC NF4AC	QSL 4F NFL NF4AC		<LOG> <LOGCLR >
F11 - DUPE							

FT8 SETUP

Network	Must be connected to either Tenda 002 or Tenda 005
NTP Server:	10.163.210.156
N3FJP Logging:	Logging-Server or 10.140.107.180
WSJT-X	<ol style="list-style-type: none">1. WSJT-X must have CAT Control, typically with HAMLIB.2. Cannot have N3FJP Logging system having control (e.g. for CW) or FLDIG
	Be sure to pick a DIG technique in N3FJP Logging!
	Exchanges are AUTOMATED Double click on call to enable transmit and respond

PHONE SETUP

Network	Must be connected to either Tenda 002 or Tenda 005
NTP Server:	10.163.210.156
N3FJP Logging:	Logging-Server or 10.140.107.180
	If using N3FJP to activate the canned texts, must have Rig Interface connected.
	Be sure to SELECT PH (PHONE) technique in N3FJP Logging! BE CERTAIN THAT A MICROPHONE IS CONNECTED TO THE RADIO

POSSIBLE VOICE CANNED TEXTS

1	(Long CQ) CQ Field Day CQ Field Day November Foxtrot 4 Alpha Charlie NF4AC Field Day Over
2	(Short CQ) CQ Field Day November Foxtrot 4 Alpha Charlie Over
3	(Exchange) 4 Foxtrot 4 Foxtrot Northern Florida Northern Florida Over
4	QSL Thanks This is November Foxtrot 4 Alpha Charlie Field Day Over
5	NF4AC
6	QSL [or Roger] 4F 4F NFL Northern Florida

RUNNING CQ				HUNT & POUNCE			
F1	F2	F3	F4	F5	F6	F7	F8
CQ	Short CQ	EXCH	QRZ?	Pounce	QSL/Exc		
(Long CQ)	(Short CQ)	4F... NFL...	QSL QRZ	NF4AC	QSL Exch		

Procedure to Record YOUR VOICE for canned texts on the ICOM 7300

1. Put the radio into a voice (LSB or USB) mode on a valid frequency with a

- dummy load or on a frequency where no one will hear you or be bothered.
2. Click the "MENU" button under the display (left button)
 3. Touch the VOICE icon middle top row
 4. You'll see T1-T8 soft keys and REC/SET / TX Level on the right.
 5. Click REC/SET on the right
 6. Click the option REC (for "record") (There must be an SD card present)
 7. Click the T-button you wish to record
 8. You can check your sound level and mic positioning by watching the REC LEVEL bar chart-- before you record.
 9. When you are really ready, click the red RECORD button, record, and then click the white square STOP button. HINT: you do NOT need to click the mic button. Start talking IMMEDIATELY, and hit the STOP button IMMEDIATELY when you are done to save time.
 10. Exit out of the menus, turn on the MON (press the multifunction button and adjust the MON display) and click the T-button to listen to what you recorded.