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# Net Control Type II

## Homework Material



Santa Clara County ARES<sup>®</sup>/RACES

Revised: 01-May-2026

N3

N2

N1

Capabilities, Services and Typical Assignments

# NET CONTROL OPERATOR LEVELS

# Review of Net Control Type III

- Previous classes reviewed typical N3 capabilities and services
  - Fully independent operator
  - Capable of basic net control assignments without assistance or coaching
  - Low to medium traffic nets
  - Scribe for low to medium traffic nets
  - Equipment: SCCo Go Kit (includes HT, batteries, coax/pwr adapters)
  - Ambassador to the public for SCCo ham radio emergency communications
- Typical N3 Assignments
  - Initial Resource Net Level 1 NCO immediately after incident
  - Resource/travel net for public service events
  - Small to medium city and tactical nets
  - County Command Net NCO
  - Small staging area net control
  - Drills and public service events

# Net Control Type II Capabilities, Assignments

- All Net Control Type III capabilities and services, plus:
  - Advanced level operator
  - Net Control for medium-to-high traffic net
  - Scribe for medium-to-high traffic net
  - Simultaneous participation in two nets (one active; one light duty)
  - Capable and equipped for cross-band repeating
  - Plans, designs, operates nets for smaller events; assist with larger events
- Typical Assignments
  - Net control or scribe for high traffic county nets
    - County Resource Net level 2 and level 3
    - County Message Net
    - Hospital Net at PHDOC
  - Net control or scribe for large city net
  - Net control for large staging area or large tactical net
  - Liaison operator between two nets

# Net Control Type I Capabilities, Assignments

- All Net Control Type II capabilities and services, plus:
  - Specialist level operator
  - The most complicated, highest traffic, most critical assignments
  - Planning, designing, and operating complex multi-radio, multi-net configurations for larger events or incidents
    - Including filling out (creating) the event ICS-205 Communications Plan
  - Equipped for and capable of out-of-county and extended deployments
  - Knows where to find all relevant documentation on the [scc-ares-races.org](http://scc-ares-races.org) website
- One additional course will cover topics of interest to all Type I qualification areas:
  - Event Planning Table-Top
- This course focuses on Net Control Type II

# Thank you for working towards a Type II credential!!

- Obtaining any Type II credential (F2, N2, P2, S2) is a nice step
  - You have gone through at least two evaluation consideration processes
  - This signifies a Fully Independent and Advanced Operator
  - You have demonstrated your capability and performance for the resource type based on SCCo RACES program standards
  - SCCo and you have confidence that you can provide dependable and reliable communication services to a served agency in benefit to the public for real and public service events.

A Type II Operator should be familiar with the Credentialing Program.

You may be asked to provide guidance to served agencies on what level radio operator they need or to assistance in planning smaller events.

Routine Profile Maintenance and Review

## **CREDENTIAL CARD, PROFILE, ACTIVITY RECORD AND ENDORSEMENTS**

Print and laminate your Credential Wallet Card after Jan 31<sup>st</sup> each year or when you earn a new Credential or Endorsement.

**Santa Clara County ARES®/RACES**

Welcome, Herman (W6XRL4) (This isn't you? Then [log in...](#))

**Home**  
[Log Out](#)  
[Activities Home](#)  
[SCC ARES/RACES Home](#)  
[Comments/Bugs](#)

**Events**  
[List Events By Date](#)  
[List Events I Joined](#)  
[Submit Class Evaluation](#)

**My Profile**  
[My Contact Info](#)  
[My Equipment](#)  
[My Activity Record](#)  
[My Completion Certificates](#)  
**My Credentials**  
[My Credential-Qualifying Events](#)  
[Cities/Agencies I Support](#)  
[Change My Call Sign](#)  
[Change My Password](#)

**My Team**  
[List Team Members](#)  
[Download Team Roster](#)

**My Credentials and Endorsements**

**County Credentials**

Click on a credential level in the table below for more information

Evaluator	Field	Net Control	Packet	Shadow
	F1	N1	P1	S1
E2	F2	N2	P2	S2
E3	F3	N3	P3	S3
Communicator IV				

**County Endorsements**

MAC County Fire County EOC Unit Leader SHARES Operator

Color Key:  
Green: Completed  
Blue: Partially Completed  
Gray: Not Started

**Print Wallet Card**

[Print Wallet Card](#)

# Verify your Contact Information: once each year or when you make changes.

- “My contact Info”
- Verify / modify info
- Note: you need to separately fill in your AlertSCC information.
- Mark the check box after “I have reviewed”
- Click “Save Changes”

We need to have accurate and up-to-date contact information in order to contact people by: email, AlertSCC, or phone.

**Santa Clara County ARES®/RACES**  
Welcome, Herman (W6XRL4) (This isn't you? Then [log in...](#))

**Home**  
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[Cities/Agencies I Support](#)  
[Change My Call Sign](#)  
[Change My Password](#)

**My Team**  
[List Team Members](#)  
[Download Team Roster](#)

**My Contact Information**

**Personal Information**  
Call Sign\*   
First Name\*   
Last Name\*   
Address 1\*   
Address 2   
City\*   
State\*   
Zip\*

**Emergency Contact Information**  
Emergency contact\*   
Contact number\*

**Supported Agencies**  
You are on the rosters of these agencies:  
County of Santa Clara

**My Primary Agency**  
County of Santa Clara  
If you are on multiple rosters, "Primary Agency" is the agency that you will most likely respond to first in case of a wide-spread incident.  
\* denotes required field

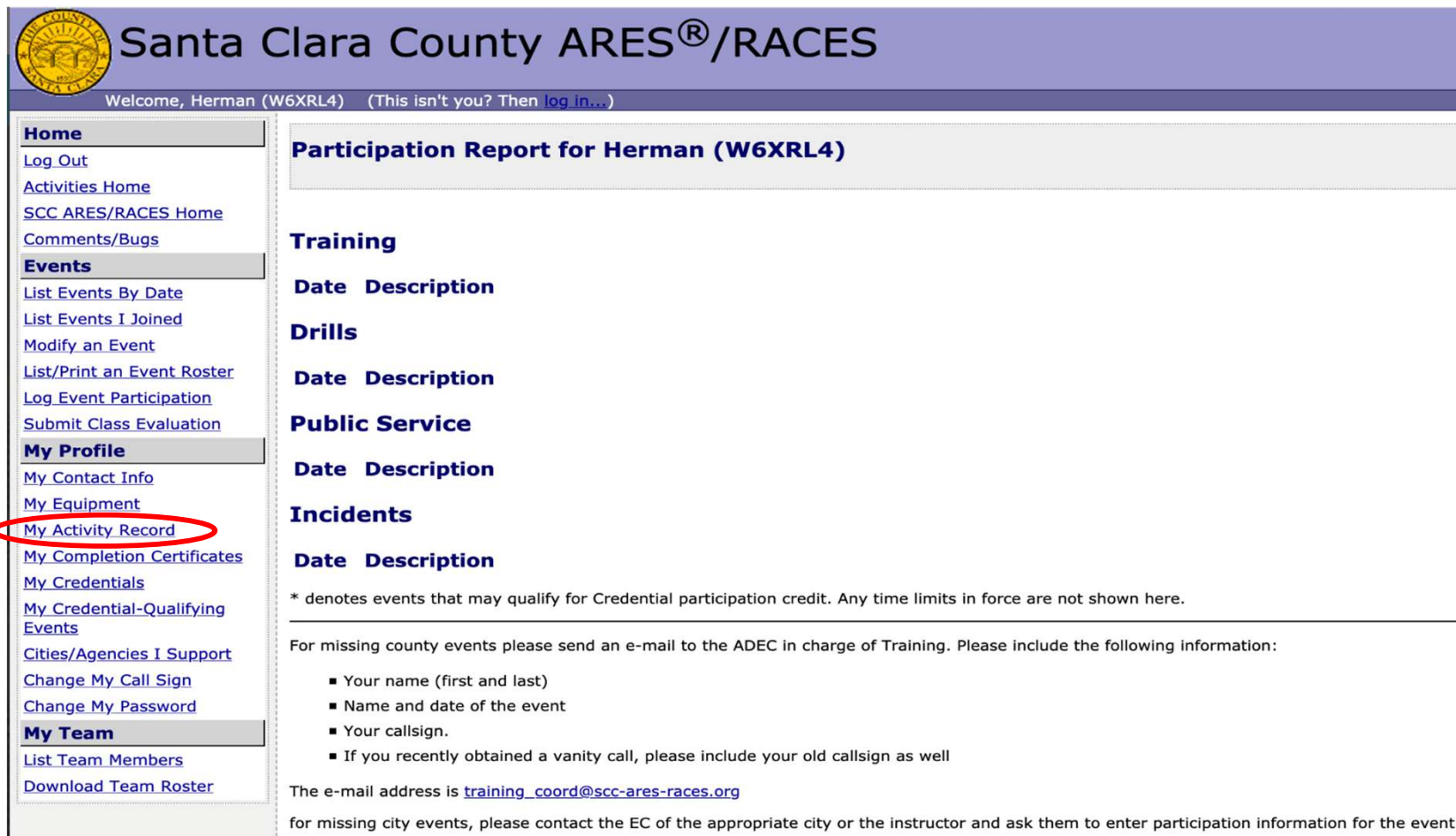
**Contact Information**  
Home Phone#   
Work Phone#   
Cell Phone#   
Pager   
e-mail #1 \*   
e-mail #2   
\* denotes required field  
# at least one number is required

**AlertSCC Information**  
Note: AlertSCC contact information only applies if you have registered as a DSW volunteer. Not all agencies in the County use the AlertSCC system for notification. Contact your agency for more information. (format for phone & SMS numbers: 999-999-9999)  
Phone #1 :   
Phone #2 :   
Phone #3 :   
e-mail #1 :   
e-mail #2 :   
e-mail #3 :   
SMS #1\*\* :   
SMS #2\*\* :   
\*\* SMS stands for Short Messaging Service which is synonymous with text messaging.

Note: These entries are prioritized. Put your primary information as #1, your second as #2, etc.

You last reviewed this information on: 04/19/2025  
I have reviewed the information on this page   
[Save Changes](#)

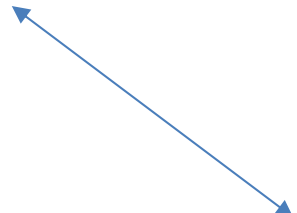
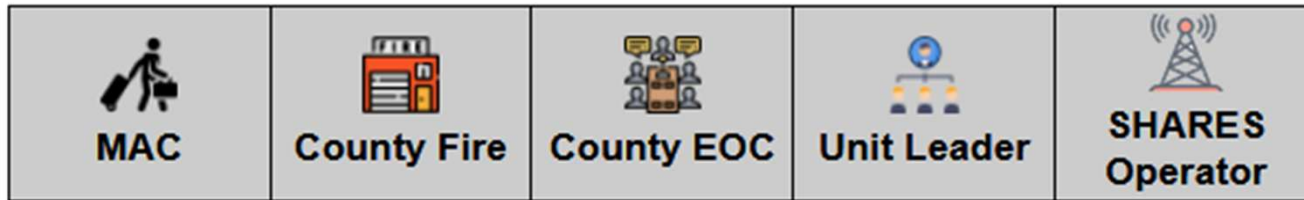
# Periodically check your Activity Record



The screenshot shows the Santa Clara County ARES®/RACES website interface. The header includes the county seal and the text "Santa Clara County ARES®/RACES". Below the header, a welcome message reads "Welcome, Herman (W6XRL4) (This isn't you? Then [log in...](#))". The left sidebar contains a navigation menu with sections: "Home" (Log Out, Activities Home, SCC ARES/RACES Home, Comments/Bugs), "Events" (List Events By Date, List Events I Joined, Modify an Event, List/Print an Event Roster, Log Event Participation, Submit Class Evaluation), "My Profile" (My Contact Info, My Equipment, **My Activity Record**, My Completion Certificates, My Credentials, My Credential-Qualifying Events), "Cities/Agencies I Support", "Change My Call Sign", "Change My Password", and "My Team" (List Team Members, Download Team Roster). The main content area is titled "Participation Report for Herman (W6XRL4)" and lists sections for Training, Drills, Public Service, and Incidents, each with a "Date Description" header. A note states: "\* denotes events that may qualify for Credential participation credit. Any time limits in force are not shown here." Below this, instructions are provided for reporting missing county events, including a list of required information: name, event date, callsign, and vanity call. The email address [training\\_coord@scc-ares-races.org](mailto:training_coord@scc-ares-races.org) is provided for missing county events, and a note at the bottom says "for missing city events, please contact the EC of the appropriate city or the instructor and ask them to enter participation information for the event."

1. Herman hasn't recorded any activities with SCC ARES/RACES, if he had, they would be listed.
2. Note the information at the bottom of the report!

# SCCo ARES/RACES Endorsements at a Glance



## Mutual Aid Communicator

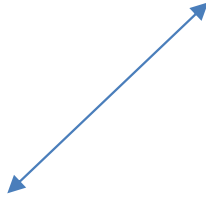
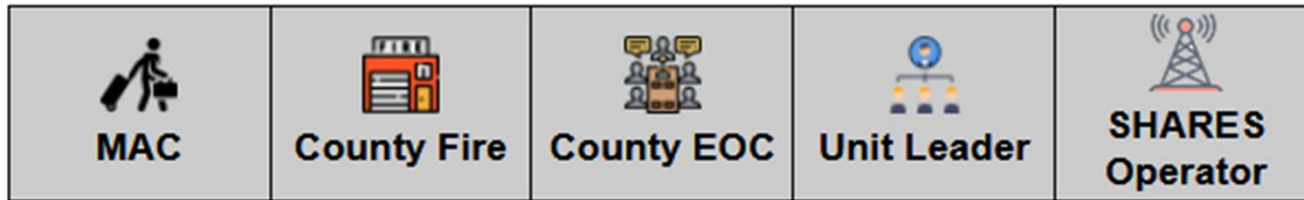
<b>Credentials</b>
Type IV Communicator or higher
<b>Administrative</b>
Agree to deploy anywhere in Santa Clara County
Registered Disaster Service Worker in Santa Clara County
Successful LiveScan and Background Check by SCCo Sheriff
Recommendation from local jurisdiction Radio Officer
<b>Participation</b>
Min 1: Radio Op at approved county exercise, event, or incident outside own city/agency.
<b>Knowledge</b>
Radio familiarity

## County Fire Station Radio Operator

<b>Credentials</b>
SCCo RACES Type III Field Operator (F3)
SCCo RACES Type III Packet Operator (P3)
<b>Administrative</b>
LiveScan and background check by SCCo Sheriff (OR SCCo RACES Mutual Aid Communicator endorsement)
Recommendation from local jurisdiction Radio Officer
<b>Training</b>
<b>County Fire Training</b>
ACES County Fire Station Operations
<b>Mentored Experience at county fire station</b>
Min 1: Voice & Packet Op at approved exercise, event, or incident

**FUTURE**  
**Pending Training Class from County Fire**

# SCCo ARES/RACES Endorsements at a Glance



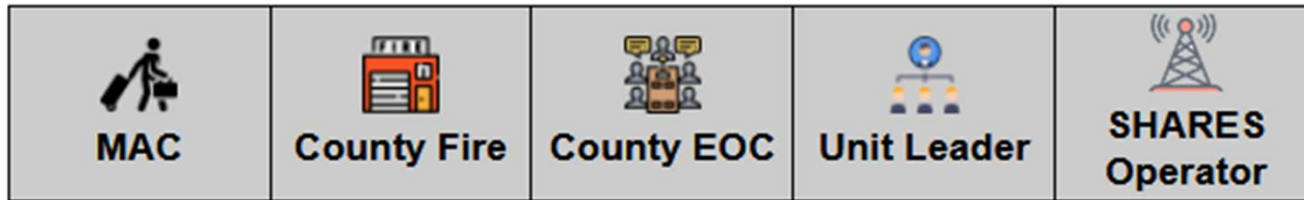
## County EOC Radio Operator

<b>Credentials</b>
SCCo RACES Type III Net Control (N3) or Packet Operator (P3)
<b>Endorsements</b>
SCCo RACES Mutual Aid Communicator (MAC)
<b>Administrative</b>
Recommendation from SCCo RACES Chief Radio Officer
Registered as County Disaster Service Worker (DSW)
<b>Training</b>
<b>Santa Clara County ARES/RACES Training</b>
SCCo EOC Radio Room Orientation
<b>Emergency Management Training</b>
SCCo EOC Orientation (County OEM)
IS-800: Intro to National Response Framework
<b>Mentored Experience at County EOC Radio Room</b>
Min 1: Net Ctrl or Packet Op at approved exercise, event, or incident
Must be completed after the EOC Radio Room Orientation class and with use of Position Binder discussed during class.

## County EOC SHARES Radio Operator

<b>Credentials</b>
SCCo RACES Type II Net Control (N2)
SCCo RACES Type II Packet Operator (P2)
<b>Endorsements</b>
SCCo RACES Mutual Aid Communicator (MAC)
SCCo RACES EOC Radio Operator
<b>Administrative</b>
Recommendation from SCCo RACES Chief Radio Officer
<b>Training</b>
<b>Santa Clara County ARES/RACES Training</b>
SCCo RACES Unit Leader Orientation
<b>Emergency Management Training</b>
G191: ICS / EOC Interface
IS-2200: Basic Emergency Operations Center Functions
<b>Mentored Experience at County EOC Radio Room</b>
Min 1: RACES Unit Lead at approved exercise, event, incident

# SCCo ARES/RACES Endorsements at a Glance



## County EOC RACES Unit Leader

Endorsement Requirements
<b>Credentials</b>
SCCo RACES Type II Net Control (N2)
SCCo RACES Type II Packet Operator (P2)
<b>Endorsements</b>
SCCo RACES EOC Radio Operator (ERO)
SCCo RACES EOC SHARES Radio Operator (SRO)
<b>Administrative</b>
Recommendation from SCCo RACES Chief Radio Officer
<b>Training</b>
<b>Santa Clara County ARES/RACES Training</b>
SCCo RACES Unit Leader Orientation
<b>Emergency Management Training</b>
G191: ICS / EOC Interface
IS-2200: Basic Emergency Operations Center Functions
<b>Mentored Experience at County EOC Radio Room</b>
Min 1: RACES Unit Lead at approved exercise, event, incident

# Reminder:

## Keep your documentation current

- [Performance Standards and Best Practices](#)  
(PDF - 1.0 MB) [v2.2.1, Revised: 14-Aug-2025]
- [https://www.scc-ares-races.org/credentials/SCCo\\_RACES\\_Credentialing\\_Program\\_Handbook\\_v3.2.pdf](https://www.scc-ares-races.org/credentials/SCCo_RACES_Credentialing_Program_Handbook_v3.2.pdf)  
(PDF - 608 KB) [v 3.2, Revised: 09-Oct-2025]
- [SCCo ARES/RACES Message Passing Procedures](#)  
(PDF - 3.5 MB) [Revised: 25-Aug-2025]

Also from [scc-ares-races.org](https://www.scc-ares-races.org):

- Frequency lists: County Voice and County Packet
- County Leadership and City/Agency Leadership
- Go-kit forms, including appropriate additional/other forms and documents



Work faster, work longer, work smarter

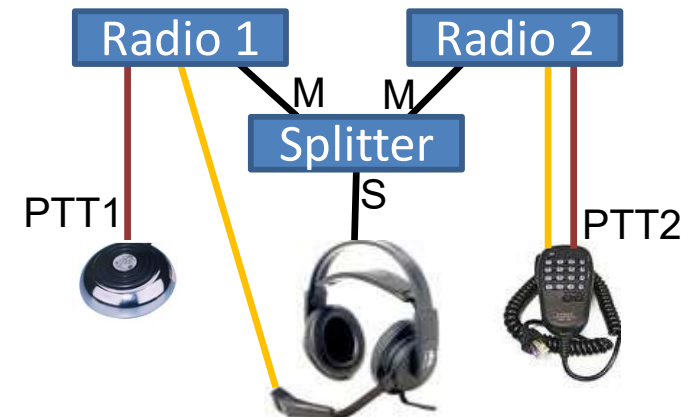
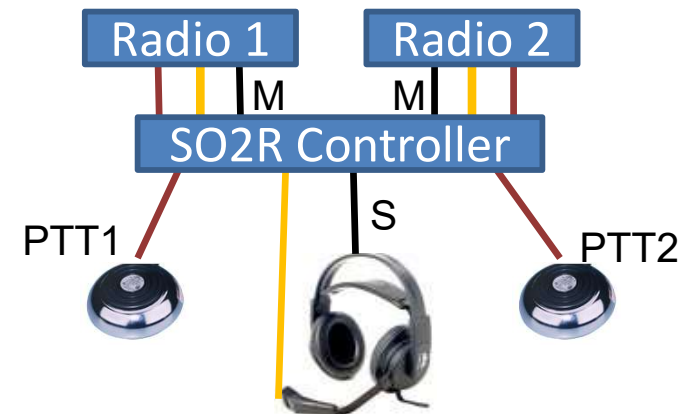
# EQUIPMENT FOR ADVANCED NET CONTROL

# Net Control Type II Equipment

- N2 requires the same equipment as F2:
  - 2m/70cm dual-band radio, 25 Watts minimum (typically, mobile-style)
    - Dual-VFO required
    - Cross-band repeat capability required
    - Must be capable of deployment independent of vehicle
  - Headphones (for above radio)
    - Headset and foot/hand switch recommended
  - Charged batteries for 12 hours of operation (20 Ah min., 26 Ah rec'd)
  - Power cable adapters to connect mobile radio to:
    - Powerpoles, cigarette lighter socket, vehicle battery terminals
  - 2m/70cm dual-band portable base antenna (such as roll-up J-pole)
  - Portable antenna mast; must raise base of antenna at least 10 ft above ground)
  - Tripod or other self-supporting base for mast (independent of vehicle)
  - Minimum of 25 feet of 50 ohm coaxial cable (50 feet recommended)
  - Coax adapters to connect mobile unit to coax and coax to:
    - BNC male and female, UHF male and female, N-type male and female

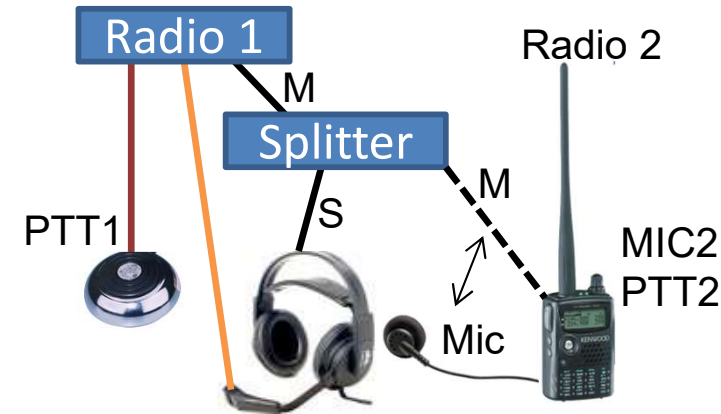
# Equipment for Two Frequencies

- Single Operator / Two Radio Controller
  - Stereo headset (one radio per ear)
  - Separate PTT for each radio (footswitch)
  - Allows reception while transmitting
  - Ideal for static configuration (Contesting)
  - Complicated set-up/maintenance (not ideal for mobile/field EmComm)
- Two radios, one headset, two mics
  - Stereo headset (one radio per ear)
  - Two mics (main radio mic in headset)
  - Allows reception while transmitting
  - Most practical option for EmComm

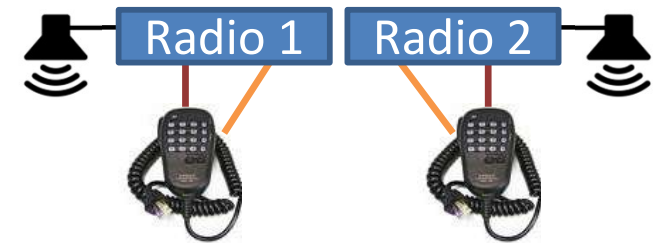


# Alternative Equipment for Two Frequencies

- One mobile, one HT
  - Stereo headset for mobile radio & HT
  - Or, earbud for HT tucked under headphones
  - Common for N2 evaluations



- Two radios, two speakers
  - Distance between speakers helps identify radio
  - Very noisy!
  - It may be all you can do if you also have to perform other duties



- One radio, two VFOs
  - Stereo headphones (VFO per ear)
  - Must remember to select TX VFO each time
  - No reception on 2nd VFO while TX on same band

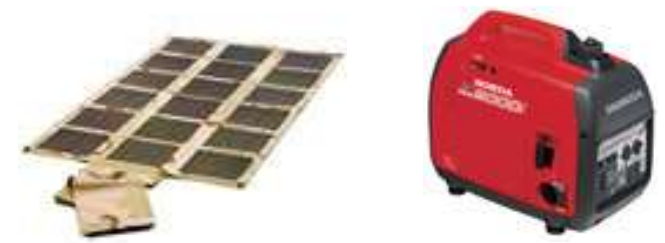


# What About Equipment for a Scribe?



- Stereo headphone amp or splitter still works
  - Feed radio 1 into left channel; radio 2 into right channel
  - Plug net control and scribe headsets into the headphone amp
  - Net control and scribe both wear stereo headphones
- Consider whether to work the two nets separately
  - If you are net control for two low-to-medium speed nets
    - It may be more efficient if the scribe becomes the net control for the second net
  - If you are net control of one high traffic net and liaison on the other
    - It may be more efficient to have a scribe to help with high traffic
    - Therefore, one net control & one scribe for both nets may be best
  - Ultimately, use common sense to match skills with requirements

# Alternative Power Sources



- Battery may not be enough for extended shifts or two radios
  - Example: net control power requirements (½ speak, ½ listen)
    - $\text{Watts}_{\text{avg}} = \text{Volts} * \text{Amps}_{\text{avg}} = 13.8 \text{ Volts} * [(\text{Rcv current} + \text{Xmit current}) / 2] \text{ Amps}$
    - Even more for two radios
  - Also consider other power requirements
    - Headphone amp, lights, fan, charger for HT, cell phone, etc.
  - Read the application note: AGM vs LFP Battery Testing
    - <https://www.scc-ares-races.org/operations/equipment/power/battery/>
  - Foldable/portable available in ~20W to ~150+W; higher wattage available with stiff panels; don't forget charge controller, and a way to aim panels at sun!
  - Only works in sun-light, what is your plan for cloudy days or nights.
- Generator
  - Inverter style best for sensitive electronics
    - Examples: Honda EU2000i, Yamaha, Honeywell, others
  - Consider: weight, noise, run time (tank capacity, efficiency), exhaust
  - Other: rain canopy, fire extinguisher (includes Class B )\*\*, splash pan\*\*, power cable and plug covers

\*\* required for use in SCC Parks, use of generator may need prior approval

# Power Distribution

- Power requirements
  - Radio(s), fan, lighting, HT charger, cell phone charger (USB?)
  - Scribe's equipment, others
- Powerpoles are county standard
  - “Red, right, roof, rear”
- DC Power Supply
  - Consider one with multiple output connectors
- Battery charger/battery backup switch
  - Power radio and charge battery while **A/C is on**
  - Switch to battery power if **A/C fails**
  - Shown: West Mountain Radio Super PWRgate
- Fused distribution
  - Shown: West Mountain Radio RigRunner
  - Don't forget the spare fuses!
- An in-line V/A/W meter can be useful





# WORKING TWO NETS SIMULTANEOUSLY

# Why Work Two (or more) Nets?



- First person / only person on site
  - County or City EOC: multiple nets already operational
  - Event / exercise: limited staffing for NCO for multiple tactical nets
- Resource net repeater link not working between one pair
  - E.g., two separated resource nets.
- Some nets in the EOC are usually low traffic
  - Single operator designated to monitor multiple nets
- People on your net need information from another net
  - You might only monitor the second net
  - You might participate as the liaison to the second net
  - A “liaison” is someone who represents one net to another
- You may be going for your F2, N2, or S2 credential.

# Roles for Two (or more) Nets



- Possible roles for you on each net:
  - Net Control: manages the net
  - Liaison: participates as a member of the net, brings/retrieves info
  - Monitor: listen-only
- Combinations depend on net requirements, operator skill
  - Liaison operator on both nets
  - Full time net control on one net; liaison operator on second net
    - Required for Net Control Type II Credential
  - Full time net control on both nets
    - Not really practical except when both nets are very low traffic

# Working Two (or more) Nets



- Decide which net will be the primary net
- Give precedence to traffic on the primary net
  - Set expectations for members of both nets
  - “If I don’t respond to you immediately, I may be talking on the other net”
- Organize everything left vs. right to match headphones/speakers
  - Equipment: radios, foot switches, cables, etc.
  - Paperwork: logs, message forms, in/out boxes, etc.
  - Use labels or name tags (tents) for each side
    - At some point, you WILL get tired or flustered and forget which is which
    - Especially if you need to use different call signs on each net!
- Use the correct Tactical and FCC call signs for each net
  - The Tactical Calls may be different on each net
- Equipment becomes more important
  - If available equipment doesn’t meet the needs of the role, adjust the role to handle what you can do with what you have
  - Work with your supervisor

# Logging two (or more) Nets

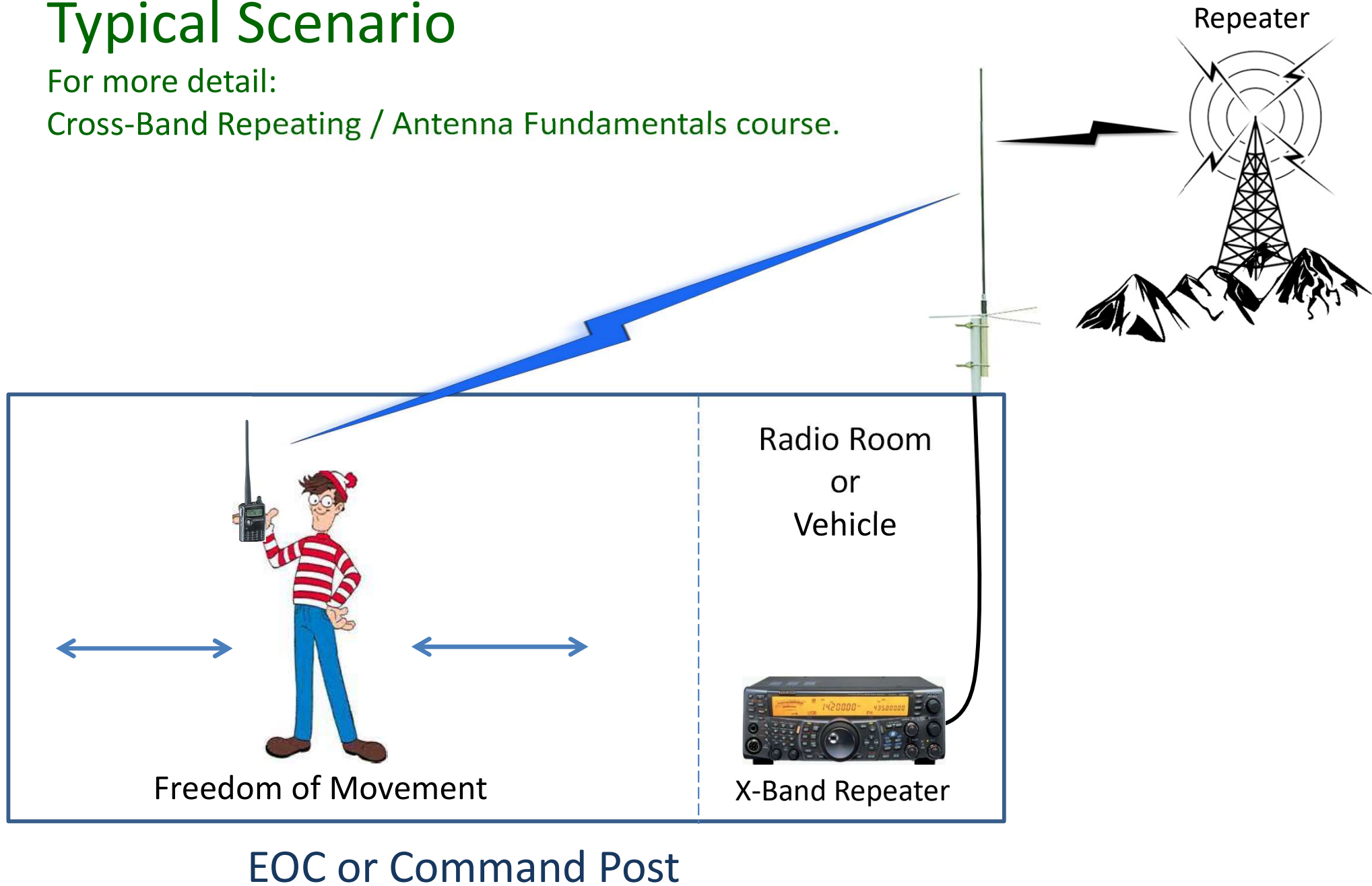
- Use a separate ICS 309 for each net
  - Each Net will have different mix of participants
  - Easier for your supervisor to see what is going on
  - You may get a relief operator for one of the nets, hand them the ICS 309 as part of the relief briefing
  - Need to reconstruct details after the event is over without confusion

# **CROSS-BAND REPEAT FOR NET CONTROL**

# Typical Scenario

For more detail:

Cross-Band Repeating / Antenna Fundamentals course.



EOC or Command Post

# Cross-band Repeating for Net Control

For more detail, consult the Cross-Band Repeating / Antenna Fundamentals course

- Advantages
  - Freedom of movement within the EOC/command post for message pick-up and delivery, or locating people with the information you need
  - May be the only option you have if you're the only operator
  - Reports of successful use in real situations like Hurricane Katrina
- Challenges
  - HT audio is usually not very good, for either TX or RX
    - Use a headset with boom mic, instead of earbud with inline mic
  - Net control is a high duty cycle operation
    - HT batteries will run down
      - Use extra-low power, have extra batteries charging at all times
    - Cross-band repeater radio will overheat
      - Use extra-low power on local/user side
      - Use a good antenna and low power on the remote/uplink side
      - Consider using a base station radio capable of higher duty cycle
      - A small 12v cooling fan can help cool the radio

# Cross-Band Repeating / Antenna Fundamentals

- **Cross-Band Repeating / Antenna Fundamentals**
- Next class offered on: 09/12/26
- See: <https://www.scc-ares-races.org/activities/events.php>

County EOC RACES Radio Room

# **CHECKLISTS, SCRIPTS, AND PREPARATION (AND BINDERS.....)**

# County OEM Position Binders

- Every position in the County EOC has a position binder that was prepared by the Office of Emergency Management
- Following that model, RACES team created a binder for each position in the Radio Room
  - Looks the same as any EOC binder
  - Position specific information are in designated tabs

# Tab 2 and 3 the same for all positions



COUNTY OF SANTA CLARA  
EMERGENCY OPERATIONS CENTER – RADIO ROOM

## **TAB 2 – Activation and Operation**

Process Flow .....	2
Responsibilities – Single operator versus NCO + Scribe .....	2
Mobilization.....	3
EOC (Arrival) Check-in .....	3
Activate Radio Room: first person to arrive (or arrive at the position):.....	3
Start of Shift.....	4
Operate .....	5
Brief & Break (Optional) .....	6

# Tab 2 and 3 the same for all positions

---



COUNTY OF SANTA CLARA  
EMERGENCY OPERATIONS CENTER – RADIO ROOM

## **TAB 3 – End of Shift and De-Mobilization**

Process Flow .....	2
End of Shift .....	3
Deactivate Radio Room .....	3
EOC Check-out.....	4
De-Mobilization .....	4
Radio Room Management – Event Documentation Review .....	4

# Tab 8 has position specific procedures

For Message Net – all the scripts for operating based on activation type and resources used



COUNTY OF SANTA CLARA  
EMERGENCY OPERATIONS CENTER – RADIO ROOM

## **TAB 8 – Position Procedural – Message Net**

Activation Type .....	2
Emergency Activation (“Normal”) Start Script.....	3
Emergency Activation (“Normal”) Update Script .....	3
Exercise Activation Start script using W6TI.....	4
Exercise Activation Update script using W6TI .....	5
Drill / Training Exercise Activation Start using K6FB.....	6
Exercise Activation Update script using K6FB.....	6
Roll Call / Health & Welfare Script.....	7
Closing Script .....	7

# Example Checklist: Start of Shift

## Start of Shift

<input type="checkbox"/>	Put on the assigned vest for your position.
<input type="checkbox"/>	Review the contents of each tab of this position binder.
<input type="checkbox"/>	Obtain the Relief Briefing from the current staff (if you are not the first person to arrive)
<input type="checkbox"/>	Verify the <u>Activate Radio Room</u> checklist steps have been completed for your position.
<input type="checkbox"/>	Locate and have available on the counter-top multiple copies of the following set of forms appropriate to the station/position. For example: <ol style="list-style-type: none"> <li>1. ICS 309 Communication log</li> <li>2. ICS 213 Message Form</li> <li>3. Radio Routing Form</li> <li>4. T-Cards</li> <li>5. Form 1 – blank paper</li> </ol>
<input type="checkbox"/>	Locate other forms (as needed), blue or black ink pens, <u>stapler</u> and staple refills
<input type="checkbox"/>	Enter/update your identification information: For voice net: start your ICS 309 form for your position. For packet: perform the Tab 8 <i>Start of Shift – Packet</i> checklist and return here.
<input type="checkbox"/>	Verify the starting number or continuing number for the message numbering for your position.
<input type="checkbox"/>	Verify your position equipment can communicate: Verify Tab 2 <i>Activate Radio Room</i> checklist complete(d) for your position. For voice net and packet via radio: radio is operational and on frequency. For packet via radio or via Internet: communicate with the intended BBS  Review Tab Nine (9) for any radio equipment reference and supplemental material that may be appropriate for this position: e.g., EOC to EOC radio, OASIS radio, etc.
<input type="checkbox"/>	For voice net: If not open: <u>upon permission from the Unit Lead / Net Manager</u> , open the net. If open: announce the update script  Review Tab Eight (8) Radio Room Position Procedural for the appropriate scripts and any preparation work (if needed).

--end of checklist--

# County EOC RACES Radio Room

## Advance preparation to do well before arriving

1. Slightly more in-depth look at binders and checklists is part of the SCCo EOC Radio Room Orientation (ERO) course
2. In the future we will likely be asking volunteers for County EOC Radio Room duty (real event, drill, or exercise) to:
  - a) Study-up on the ERO endorsement course
  - b) Create a position binder for their assigned position from material in the groups.io sub-group for the ERO endorsement
    - i. Checklists
    - ii. Scripts
  - c) Groups.io access is limited to those holding or working on the ERO endorsement.
  - d) Know your position's equipment
3. Web access to materials will be made available on an individual basis to those working on or holding the ERO Endorsement

# Not just for County EOC RACES Radio Room

- As an N2, you should be prepared for
  - City participation at an event or drill
  - County EOC participation at an event or drill
  - If you are a MAC: a mutual-aid assignment
- Whether it is a city or county experience
  - Have your personal checklist ready and up to-date
  - Have your basic scripts prepared
    - If your assignment has scripts already, try to get them in advance of arriving
  - Familiarize yourself with the equipment you will be using
    - If you will be using someone else's, ask in advance for information
- Keep your 2-hour and 12-hour go-kits current
  - Periodically review all your equipment and supplies for operational readiness
  - Refresh your “radio familiarity” with your own equipment
- Updates to documentation are communicated via the groups.io announce list



# RESOURCE NET OPERATIONS LEVEL 1 (REVIEW)

# Resource Net Level 1 Operations

- Come up on the Resource Net
  - ~~If possible, use AA6BT (primary)~~
  - If possible, cover W6ASH (North) and K6SNY (South) with liaisons
- Listen for active stations
- If no net currently exists, announce that you are organizing a net to collect damage information
- Inform that you have no ability to dispatch help
- Take gross reports of damage until relieved
  - Use the Modified Mercalli (“MIKE-MIKE”) Scale (1-8) for earthquakes
- Be prepared to ...
  - Move to Level 2 operations if situation severity increases, or
  - Pass summary information to a more experienced NCO

# Resource Net Level 1 Challenges

- When/whether to start the net
  - No harm in starting a net
  - Knowing (for certain) that the event was small is important info!
- Fear of taking responsibility as net control
  - Be professional, follow your training, do your best
  - Consult “Performance Standards and Best Practices”
- Repeaters initially unlinked
  - Primary vs. North vs. South county – info in 3 different places
  - Use liaison operators while unlinked to consolidate info
  - Ask a control operator or DEC/ADEC to initiate the link, if warranted
- Inexperienced operators
  - Give guidance where needed
  - Announce how you want responses formatted
    - “When I call you, give your call sign, city, Mike-Mike #, and call sign”

<b>MESSAGE FORM</b>		Origin Msg #: <sup>2</sup> _____	Destination Msg #: <sup>3</sup> _____
<p>► For paper: use ballpoint pen – blue or black ink only (See back for instructions)</p>			
<b>Date</b> <sup>1</sup> :	<b>Time</b> (24hr):	<b>Handling</b> <sup>5</sup> (✓one): <input type="checkbox"/> Immediate (ASAP) <input type="checkbox"/> Priority (<1 hr) <input type="checkbox"/> Routine (<2 hr)	
_____/_____/_____ (mm/dd/yy)	_____ (0001 to 2400)	<b>This Message Requests You To</b> <sup>6</sup> : <b>TAKE ACTION</b> (✓one): <input type="checkbox"/> Yes <input type="checkbox"/> No <b>REPLY</b> (✓one): <input type="checkbox"/> Yes, by _____ <input type="checkbox"/> No	
<b>T O</b>	<b>ICS Position: (required)</b> <sup>7</sup>	<b>F R O M</b>	<b>ICS Position: (required)</b> <sup>8</sup>
	<b>Location: (required)</b> <sup>9</sup>		<b>Location: (required)</b> <sup>9</sup>
	<b>Name: (optional)</b>		<b>Name: (optional)</b>
	<b>Telephone #: (optional)</b>		<b>Telephone #: (optional)</b>
<b>SUBJECT:</b> <sup>10</sup> _____			
<b>REFERENCE</b> (e.g., Number of earlier msg.): <sup>11</sup> _____			
<b>MESSAGE:</b> <sup>12</sup> (what, when, where needed; how long; contact name and phone number - KEEP MSG BRIEF)			
<b>ACTION TAKEN:</b> <sup>13</sup> (For use by Originator / Recipient) ► <b>USE SEPARATE MESSAGE FORM IF SENDING REPLY!</b>			
CC: <input type="checkbox"/> Management <input type="checkbox"/> Operations <input type="checkbox"/> Planning <input type="checkbox"/> Logistics <input type="checkbox"/> Finance			
<b>Operator Use Only:</b> <sup>14</sup>			
<b>Relay:</b>	<b>Rcvd:</b>	<b>Sent:</b>	
<b>How Received</b> <input type="checkbox"/> or <b>Sent</b> <input type="checkbox"/> (✓one): <input type="checkbox"/> Telephone <input type="checkbox"/> Dispatch Center <input type="checkbox"/> EOC Radio <input type="checkbox"/> FAX <input type="checkbox"/> Courier <input type="checkbox"/> Amateur Radio <input type="checkbox"/> Other _____		<b>Operator Call Sign:</b> _____ <b>Operator Name:</b> _____ <b>Date:</b> _____ <b>Time:</b> _____	
<b>Outgoing (Sent):</b> <sup>15</sup> Message Originator: Send the original to radio. Retain a copy for your reference. Radio: After sending, complete Operator Use Only and file in radio.			
<b>Incoming (Received):</b> <sup>16</sup> Radio: Complete Operator Use Only then route to the Addressee. Retain a copy in radio if directed by Supervisor. Addressee: Take appropriate action.			
<b>SCCo RACES ICS Form 213 (01/19/2022)</b>			

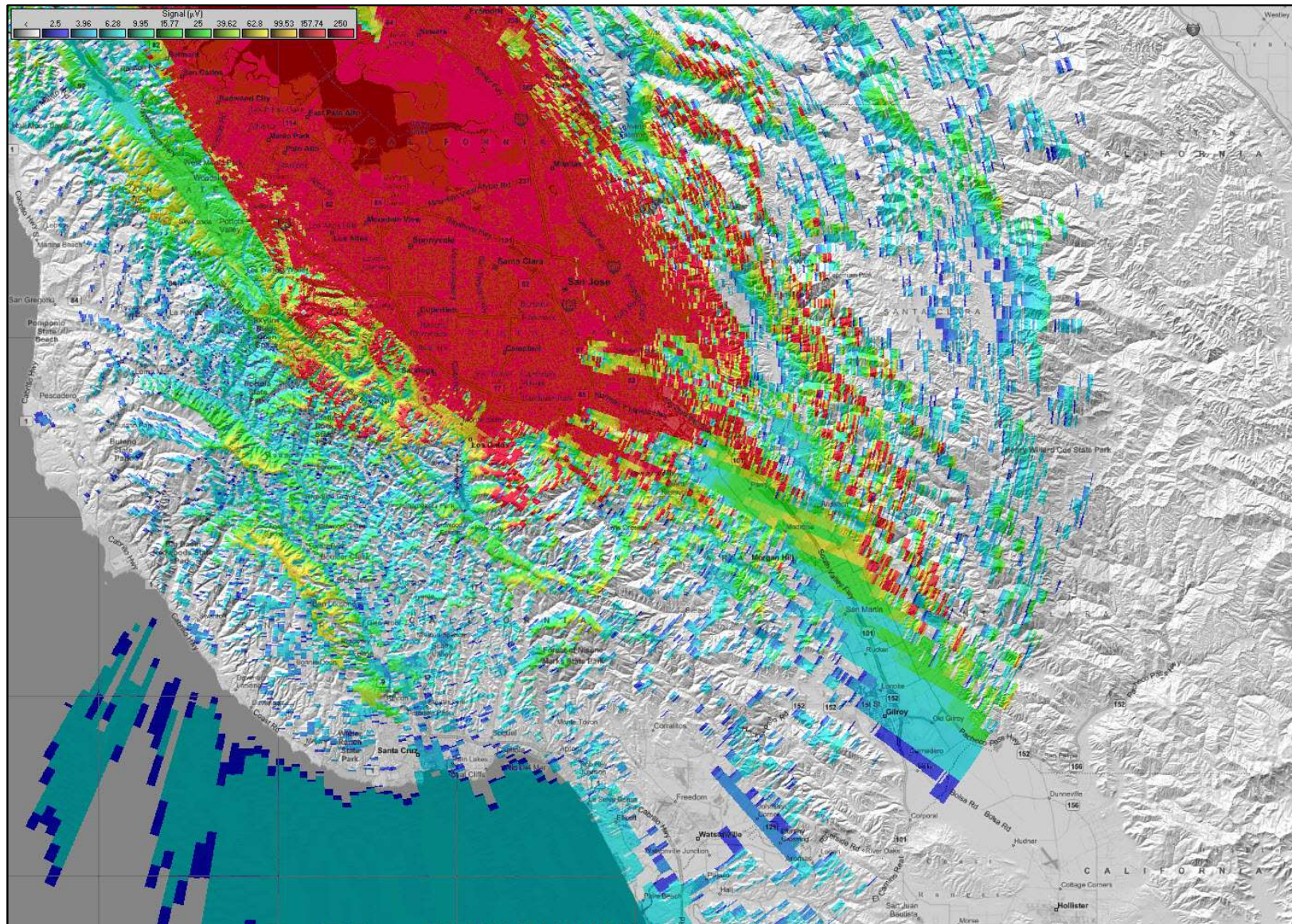
Review

# MESSAGE NET OPERATIONS

# Message Net

- County message net can be non-stop action for hours
  - As packet use has increased, message net is much more manageable
- Scribe is essential part of the team
- Message net team needs to be the best message handlers
  - Other operators will pattern themselves after net control
  - Clearly state the quantity and nature of the traffic
    - “I have one priority message for you.”
  - Clearly state the message type
    - “Message type is ICS-213”, “Message type is informal”
  - Crisp, clear, concise – even for informal messages
    - Say what’s needed, nothing more
  - Proper phonetics, numerals and prowords are critical on this net
  - Pass or copy messages exactly as written
  - Use ICS 213-SCCo for formal messages

# Message Net Repeater Coverage (W6TI)



Be aware: Morgan Hill and Gilroy have weaker coverage; listen for them!

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## W6TI – we are secondary users during exercises

- W6TI is owned/operated by the Northern California DX Club.
- We get permission to use it for each exercise.
- When it is an exercise and we are using W6TI, we are secondary users. DX club messages are primary
- Scripts in the County EOC Radio Room Message Net position binder cover all the permutations.

# Message Net Alternate Repeaters (K6FB)

- Two linked repeaters
  - 145.450 (-) 100 Hz – Las Cumbres (above Los Gatos/Saratoga)
  - 442.575 (+) 100 Hz – Black Mountain (near W6TI)
- Prior testing at county drill
  - Coverage in Gilroy and Morgan Hill are an issue

# Message Announcement Examples

- Step 1: Announce quantity and handling order as usual
  - Sender calls receiver
    - “Los Altos, I have 2 Priority messages for you”
    - “Santa Clara, I have 1 Immediate and 1 Routine message for you”
  - Receiver prioritizes by handling order, then: “go ahead” or “ready to copy”
- **(Reminder)** Step 2: Announce message type before sending
  - Let the receiver know what’s coming so they can prepare the right form
    - “Message type is ICS-213”
    - “Message type is Logistics Request Form”
    - “Message type is informal” (ex. unstructured, non-form-type messages)
  - Receiver readies the right form, then: “go ahead” or “read to copy”
- Step 3: Send the message as usual
  - “Message number ...”

# Message Types

- 3<sup>rd</sup> party vs Operational
  - Operational messages are between radio operators: used to manage the net, such as check-ins, health & welfare, status/info gathering, etc.
  - 3<sup>rd</sup> party is what we do for our served agencies. ICS forms, SCCo forms, Mutual Aid Request, handwritten, etc.
    - Informal, handwritten; encourage the sender to re-write on an ICS 213
- To help manage effective to/from, handling order, message ID and tracking on some forms, a Radio Routing Slip is used.
  - Think of it as a standardized envelope
- Fill out and staple to forms that don't already have the information.

# Radio Routing Slip

Use with any form that does not have Radio Routing Information as part of the form.

Santa Clara County RACES -- Radio Routing Slip				Rev: 190527
Radio Operator Only:		<sup>1</sup> Origin Msg #:	Destination Msg #:	
<b>This Section to be Completed by Message Author/Creator:</b>				(Underlined=Required)
<sup>2</sup> <u>Date:</u>		<sup>3</sup> <u>Time</u> (24hr):	<sup>4</sup> <u>Handling:</u> <input type="radio"/> Immediate (ASAP) <input type="radio"/> Priority (<1 hr) <input type="radio"/> Routine (<2 hr)	
T O	<sup>5</sup> <u>ICS Position:</u>		F R O M	<sup>9</sup> <u>ICS Position:</u>
	<sup>6</sup> <u>Location:</u>			<sup>10</sup> <u>Location:</u>
	<sup>7</sup> <u>Name:</u>			<sup>11</sup> <u>Name:</u>
	<sup>8</sup> <u>Contact Info:</u>			<sup>12</sup> <u>Contact Info:</u>
Form:	<sup>13</sup> <u>Type:</u>		<sup>14</sup> <u>Topic:</u>	
<b>Instructions for Message Author/Creator:</b> <ol style="list-style-type: none"> <li>1. Complete section above, surrounded by BOLD line (see instructions on back)</li> <li>2. Fill in all <u>Required</u> fields</li> <li>3. Attach to the front of a form to be sent via radio</li> <li>4. Deliver to radio operator for transmission</li> </ol>				
Radio Operator Only:				
Relay:	Rcvd:		Sent:	
Name:	Call Sign:		Date:	Time (24hr):

# Radio Routing Slip (Cont.)

- If a message form does not have radio routing information as part of the form, use a Radio Routing Slip
- To help manage effective to/from, handling order, message ID and tracking on some forms, a Radio Routing Slip is used.
- Fill out and staple to forms that don't already have the information.

# Message Prioritization

- Prioritize according to handling order and time
  - SCC handling order: Immediate, Priority, Routine
  - Situation Severity is being deprecated – not all forms are replaced
    - Sender: continue to vocalize it if still there, not crossed out, and marked
    - Receiver:
      - If it is on your form and you don't hear it, don't mark it and move on.
      - If it is not on your form and you hear it, just make a note and move on.
  - Use Date then Time to prioritize between same handling order
  - Ultimately, the served agency decides the order

<b>MESSAGE FORM</b> ▶ For paper: use ballpoint pen – blue or black ink only (See back for instructions)		Origin Msg #: <sup>2</sup> _____	Destination Msg #: <sup>3</sup> _____
Date <sup>1</sup> : <b>2</b> _____ (mm/dd/yy)	Time <sup>3</sup> <b>3</b> (24hr) _____ (0001 to 2400)	<b>Handling</b> <sup>5</sup> (✓one): <input type="checkbox"/> Immediate (ASAP) <input type="checkbox"/> Priority (<1 hr) <input type="checkbox"/> Routine (<2 hr)	
This Message Requests You To <sup>6</sup> :			
TAKE ACTION (✓one): <input type="checkbox"/> Yes <input type="checkbox"/> No			
REPLY (✓one): <input type="checkbox"/> Yes, by _____ <input type="checkbox"/> No			

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# Homework: Message Prioritization

Prior to the class, do the following:

Sort the messages on the next slide into the order you will send or receive them: i.e., which is first, second, third....., sixth.

We will review and discuss during class.

# Homework Exercise: Message Prioritization

- You are net control for the county message net
- The following messages are waiting to be sent:

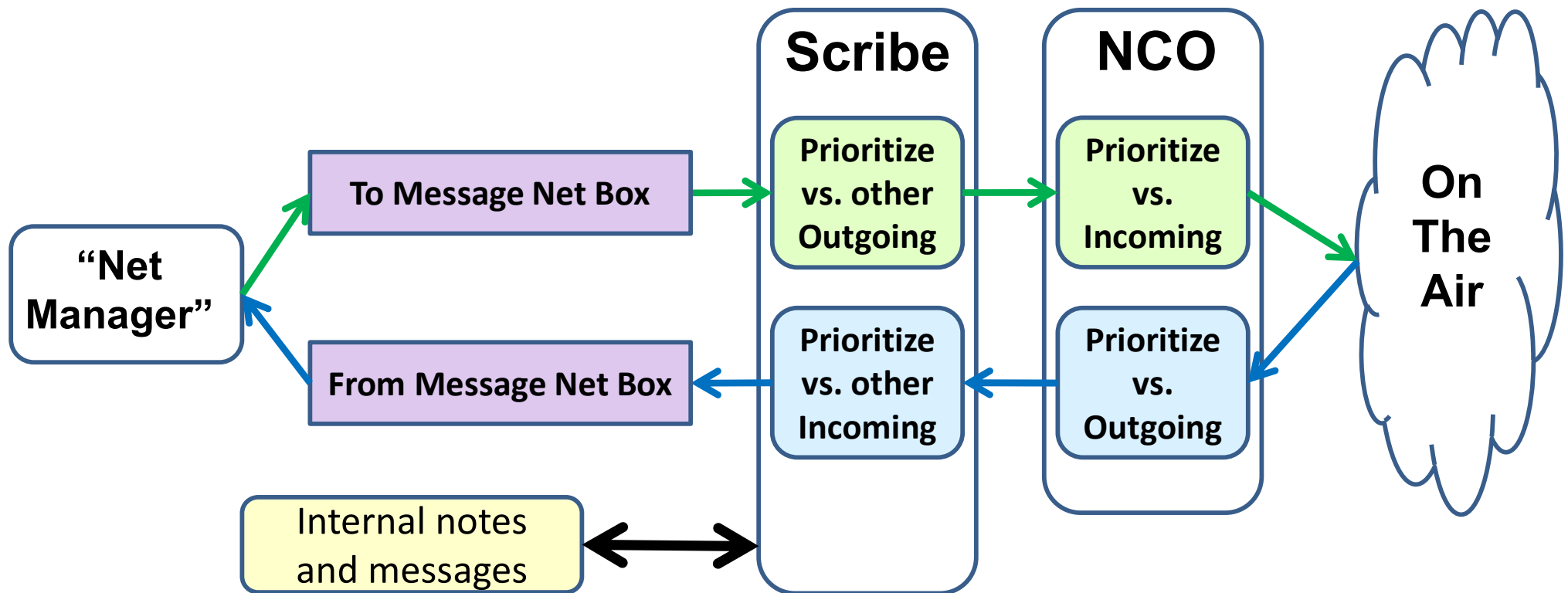
Msg Nbr	Time	Sending To	Handling Order
XSC327	0915	Sunnyvale EOC	Routine
XSC349	0921	Gilroy EOC	Priority
XSC207	0925	Morgan Hill EOC	Priority
XSC401	0930	All EOCs	Immediate

- You also have the following incoming messages waiting:

Time	Receiving From	Handling Order
0920	Los Altos	Priority
0930	San Jose	Immediate

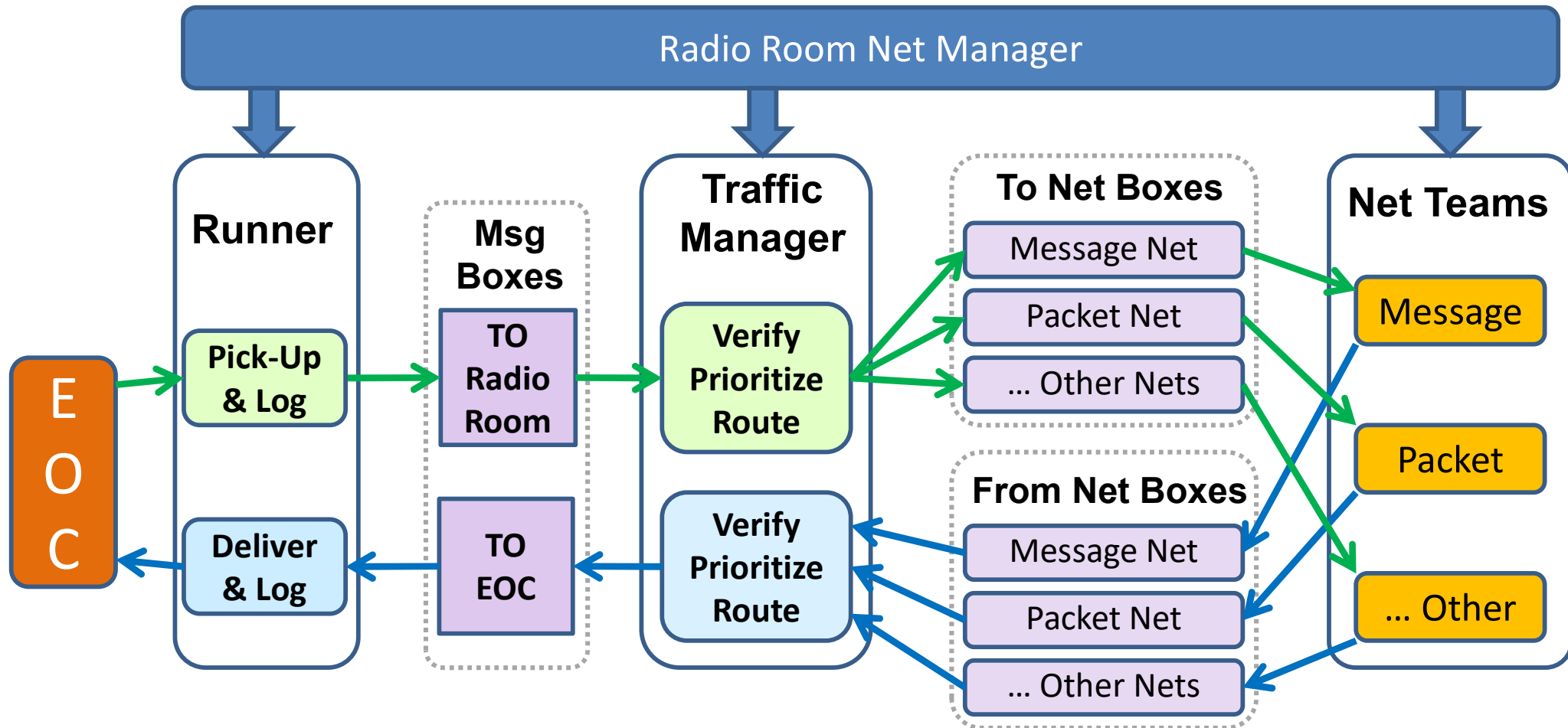
- List these six messages in the proper send/receive order
- NOTE: assume no other messages come in during this time

# Prioritizing Traffic Within a Net



- NCO prioritizes message on the air
  - Holds incoming for high priority outgoing and vice versa
- Scribe prioritizes & logs message into & out from the team
  - Maintains prioritized incoming and outgoing message bins

# Radio Room Traffic Routing/Prioritization



- For small, low traffic events, radio room Net Manager (formerly shift supervisor) may also perform the traffic manager role

# Homework: Net Manager / Traffic Manager

## Prior to the class, do the following:

The following messages have come in from the EOC to be sent out via Amateur Radio. Which county net would you use and why?

To	Handling Order	Which Net?	Why?
Sunnyvale EOC	Routine		
Fire Station 75	Immediate		
All EOCs	Priority		
All EOCs	Immediate		

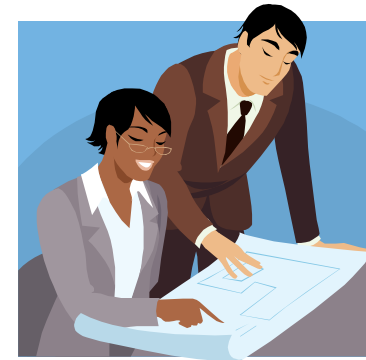
How might the contents of the message influence your choice?  
We'll review and discuss during the class.



It's not rocket science. But it does take effort & attention to detail

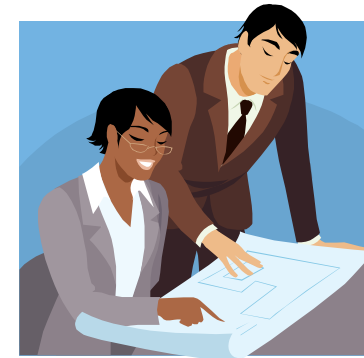
# INTRODUCTION TO PLANNING FOR NET CONTROL

# Focus of this section



- The formulation and documentation of a formal net control plan is beyond the scope of this course
  - Medium to large events require detailed and formal documentation and planning
  - Covered in the Event Planning Table-Top course (June 6<sup>th</sup>, 2026)
- An N2 can plan for smaller events
- Use the planning information in this section to help you think through different Net types and the planning process
  - Each drill and event will be different
  - But plans from previous instances of a drill or event can be helpful along with any previous After Action Reports (AAR)

# Planning for an Event



- An advanced net control operator (N2) should be able to
  - Plan a net for a smaller event
  - Be able to (re)create an ICS 205 for a small to medium event
    - One to two tactical nets
  - Assist with net control planning for a larger event
- Components of a larger formal net control plan include:
  - Net types / quantity
  - Frequency selection and Intermod
  - Power level selection and Fundamental Overload
  - Antenna placement
  - Schedule
  - Equipment and logistics
  - Personnel requirements/assignments
  - Net control script
  - Net control briefing

Mentioned here,  
covered in  
Event Planning  
Table-Top course

# Net Type and Quantity Considerations

- Resource Net
  - Directed net
  - Common for county exercises and many city exercises
  - Usually required at events where SCC credential evaluations are being conducted
  - Required for activation under DSW and mutual aid
  - For smaller events, could consider as an informal “talk in” frequency
  - Larger events will probably need an experienced NCO and maybe a scribe
  - If possible, arrange event so everyone doesn’t need to be on the net at the same time
    - E.g., try to spread out arrivals

# Net Type and Quantity Considerations (Cont.)

- Message Net / Field team / Tactical nets
  - Directed net
  - **Traffic: All formal:** e.g. shelters, schools, fire stations, hospitals...
    - How many teams? Messages per team? Time/message? Operator quality?
    - Expect 4 to 8 teams per net (depends on traffic volume)
  - **Traffic: All informal:** parades, bike races, checkpoints, rovers
    - How long to gather principle data (crowd size, etc.), health & welfare?
    - Usually no more than 15-20 teams per net
  - **Traffic: Mixture:**
    - Think through traffic types, quantity of messages per team, quantity of teams, health & welfare checks, capability of likely net control operators, availability of net control operators
  - Net Control staffing: larger nets will likely need a scribe

# Net Type and Quantity Considerations (Cont.)

- Shadow Nets
  - Usually works best as an open net
  - Most shadows need to talk to another shadow, not to Net Control
  - Traffic is almost always informal (usually no forms-based traffic)
  - Try to stay with one shadow net whenever possible
    - Shadows are highly mobile/portable
    - Radio is in pouch, backpack, vest, etc.; difficult to switch frequencies
    - HT output is mono; difficult to tell which frequency is in use
    - Working two frequencies usually only possible with 2 HTs; 2 earbuds
  - Open net performance is dependent on everyone on net
    - Consider: who the operators will be; how “chatty” the principals are; number of shadows; number of expected messages per shadow; ...
  - If you need more than one net, divide according to traffic clusters
    - Geography, functional area, etc.

# Net Type and Quantity Considerations (Cont.)

- Command Net
  - For event staff to communicate with each other
  - Large events can benefit greatly; some medium events, too
  - Typically operated as an open net
- Packet Nets
  - May use existing county BBS frequencies
  - May use separate training BBS and non-SCCo frequencies
  - Can greatly reduce the traffic level on message nets
  - Encourage use, especially when formal message traffic is needed
- Staging nets and other tactical nets
  - Where and when needed
  - Can be quite large, but relatively simple – check-in/out; H&W

# Review: ICS 205 – Communications Plan

<b>COMMUNICATIONS PLAN</b> SCC <sub>o</sub> ARES/RACES/ACS		1. Incident Name/Location Countywide RACES/CERT Exercise, Moffett Field			2. Activation Number XSC-18-08T		3. Operational Period Date/Time From Date: 10/27/2018 To Date: 10/27/2018 From Time: 0600 To Time: 1600		
<b>4. Communications Resources</b>									
Ch #	Function	Call Sign and/or Sys / Net / Ch / TG Name	Assignment	Rx <u>Freq_N</u> / W	Rx Tone or NAC	Tx <u>Freq_N</u> / W or + / - / S	Tx Tone or NAC	Mode <u>A</u> , <u>D</u> , <u>M</u>	Remarks
	Emergency	9-1-1	All event staff and participants	Telephone		Telephone		M	For actual emergencies, first call 9-1-1. Then report the situation to Net Control, prefacing your message with "THIS IS NOT A DRILL."
	Resource	AA6BT Resource Net Primary	RACES resources traveling to or from the drill site	146.115 W		+	100.0	A	Directed Net. Link to N6NAC. Link repeaters at 0600. Unlink after finished tracking departing resources (~1600). Frequency open to non-participant use during low resource net utilization.
	Resource	W6ASH (UHF) Resource Net North	RACES resources traveling to or from the drill site	440.800 W		+	100.0	A	Link to AA6BT
	Resource	N6NAC Resource Net South	RACES resources traveling to or from the drill site	444.625 W		+	110.9	A	Linked from AA6BT

- Function – primary function
- Call Sign and/or Net – e.g. repeaters call sign, name of the net
- Assignment – brief description of how used
- Rx Freq (narrow / wide ), Rx Tone, Tx Freq (N/W), Tx Tone
- Mode – Analog, Digital, Mixed
- Remarks – important comments for implementation

ICS-205 Communications Plan, Net Control Staffing, Dispatch Template

# **EVENT PLANNING**

# **STRETCH HOMEWORK**

# Stretch Homework

- These remaining homework items are “stretch” items.
- Please complete as much as possible and bring your results and notes to the class for discussion and interaction.

# The ICS-205 Communications Plan.

- Is a fundamental part of event planning and preparation
- A well thought out communications plan should list:
  - Primary tactical resources for each net: e.g. simplex frequency, repeater with split, PL tone, tone squelch, etc.
    - Tactical nets. Examples: Field, Shadow, Tactical 1, etc.
    - Ideally nets should be listed “directed” or “open”
  - Backup/Alternate resources for each primary net
  - Resource Net repeaters and any required linking (if to be used)
  - Other communication resources:
    - BBS stations and frequencies
    - Dedicated frequencies for event use: e.g. Fox transmitters, beacons, APRS (if used), etc.
  - Helpful, makes it more complete:
    - Direct dial numbers for local police and fire
    - Mobile phone numbers for primary staff

# Sample: Los Altos Festival of Lights

<b>COMMUNICATIONS PLAN</b> SCCo ARES/RACES/ACS		<b>1. Incident Name/Location</b> Los Altos Festival of Lights 2021			<b>2. Activation Number</b> LOS-2021-004 XSC-21-08T		<b>3. Operational Period Date/Time</b> From Date: 11/28/2021 To Date: 11/28/2021 From Time: 1200 Hrs To Time: 2200 Hrs			
<b>4. Communications Resources</b>										
Ch #	Function	Call Sign and/or Sys / Net / Ch / TG Name	Assignment	Rx Freq N / W	Rx Tone or NAC	Tx Freq N / W or + / - / S	Tx Tone or NAC	Mode A,D,M	Remarks	
	Resource Net	AA6BT Repeater W6ASH Repeater N6NAC Repeater		146.115 + 440.800 + 444.625 +		146.715 445.800 449.625	100 PL 100 PL 110.9 PL	A	Repeaters will be linked	
	Parade Tactical	K6LOS Repeater		146.940 -	None	146.340	**	A	** Use your assigned PL tone	
	Tactical Backup 1	(Simplex)		146.595 (S)	None	146.595 (S)	**	A	**Use your assigned PL tone	
	Tactical Backup 2	(Simplex)		147.435 (S)	None	147.435 (S)	**	A	** Use your assigned PL tone	
	Shadow Net	K6LOS Repeater		441.525 +	None	446.525	**	A	** Use your assigned PL tone	
	Shadow Net Backup	W6ASH Repeater		145.270 -		144.670	100 PL	A		
	Phone	Event IC	650-823-9433						Art Whipple	
	Phone	Event IC Alt	650-823-3265						Jim Clark	
<b>5. Special Instructions</b> Do not enable Tone Squelch (input tone or receive tone) on your radio for any of the local parade frequencies.										
<b>ICS 205</b> SCCo RACES		<b>6.Prepared by (Communications Unit Leader)</b> Art Whipple – WA3AW			<b>7.Prepared Date/Time</b> 11/20/2021			<b>8. Page</b> 1 of 1		

See reverse for instructions. All channels are shown as if programmed in a base station, mobile or portable radio. Repeater stations must be programmed with the Rx and Tx reversed.

# Sample: Quarterly Exercise

<b>COMMUNICATIONS PLAN</b> SCCo ARES/RACES/ACS		1. Incident Name/Location SCCo ARES/RACES Quarterly Exercise			2. Activation Number TBD		3. Operational Period Date/Time From Date: 05/16/2026 To Date: 05/16/2026 From Time: 10:00 To Time: 12:00			
4. Communications Resources										
Ch #	Function	Call Sign and/or Sys / Net / Ch / TG Name	Assignment	Rx Freq N / W	Rx Tone or NAC	Tx Freq N / W or + / - / S	Tx Tone or NAC	Mode A,D,M	Remarks	
	Operations	W6TI	County Message Net	147.360		+	110.9	A		
	Command	W6GGF	County Command Net	442.500		+	100.0	A		
	Operations	W6ASH	County Resource Net	145.270		-	100.0	A	Linked to K6SNY	
	Operations	K6SNY	County Resource Net	443.275		+	107.2	A	Linked from W6ASH	
	Command		EOC-EOC Net					A		
	Operations	W1XSC	Packet	145.750 223.620 433.570		S				
	Operations	W2XSC	Packet	145.730 223.560 433.590		S				
	Operations	W3XSC	Packet	144.310 223.540 433.450		S				
	Operations	W4XSC	Packet	145.690 223.600* 433.550		S			*223.600 is primarily for BBS forwarding. OK for emergencies or occasional user access testing.	
5. Special Instructions										
This ICS-205 is for cities and the County EOC operation. Evaluations and practice in the Sheriff's Office parking lot will have a different 205.										
ICS 205 SCCo RACES		6.Prepared by (Communications Unit Leader) Tim Howard, KE6TIM			7.Prepared Date/Time 03/12/2026 21:20			8. Page 1 of 1		

See reverse for instructions. All channels are shown as if programmed in a base station, mobile or portable radio. Repeater stations must be programmed with the Rx and Tx reversed.

# And always - the back page

## ICS 205

### Communications Plan, Adapted for Santa Clara County ARES/RACES/ACS

**Purpose:** The Communications Plan (ICS 205) provides information on all radio frequency or trunked radio system talkgroup assignments for each operational period. The plan is a summary of information obtained about available radio frequencies or talkgroups and the assignments of those resources by the Communications Unit Leader or Incident Commander for use by incident responders.

**Preparation:** The ICS 205 is prepared by the Communications Unit Leader or other individual designated by the Incident Commander.

**Distribution:** The ICS 205 is provided to all incident responders.

#	Block Title	Instructions
1	<b>Incident Name/Location</b>	Enter the name assigned to the incident and, optionally, the location of the incident.
2	<b>Activation Number</b>	Enter the activation number assigned to the incident, otherwise leave blank if none.
3	<b>Operational Period Date/Time</b>	Enter the start date (mm/dd/year) and time (24-hr clock) and the end date and time for the operational period to which the form applies.
4	<b>Communications Resources</b>	Enter the following information about radio channel use:
	Ch #	Use at your discretion. Channel number (Ch #) may equate to channel numbers in pre-programmed incident radios, used as reference numbers on the ICS 205 document, or left blank for recipient use.
	Function	Enter the ICS or local function for which this channel will be used (Operations, Command, Logistics, Resource, Tactical, Emergency, etc.)
	Call Sign and/or Sys / Net / Ch / TG Name	Enter the call sign of the repeater or station (if appropriate) and the system, net, channel or talkgroup name by which this channel is commonly known.
	Assignment	Enter the individual(s), group(s), or function(s) that will be the primary users of this channel.
	Rx Freq N / W	Enter the Receive Frequency (Rx Freq) as the mobile or portable subscriber would be programmed, followed by "N" for narrowband or a "W" for wideband emissions. For HF, include USB or LSB, as appropriate.
	Rx Tone or NAC	Enter the Receive Continuous Tone Coded Squelch System (CTCSS) subaudible tone (Rx Tone) or Network Access Code (Rx NAC) for the receive frequency as the mobile or portable subscriber would be programmed.
	Tx Freq N / W or + / - / S	Enter the Transmit Frequency (Tx Freq) as the mobile or portable subscriber would be programmed, followed by "N" for narrowband or a "W" for wideband emissions. For HF, include USB or LSB, as appropriate. Alternatively, for repeaters using standard amateur frequency offsets (e.g. 600 Hz for 2m, 5 MHz for 70cm), enter "+" or "-" as appropriate. Enter "S" if Rx Freq represents a simplex frequency.
	Tx Tone or NAC	Enter the Transmit Continuous Tone Coded Squelch System (CTCSS) subaudible tone (Tx Tone) or Network Access Code (Tx NAC) for the transmit frequency as the mobile or portable subscriber would be programmed.
	Mode A,D,M	Enter "A" for analog, "D" for digital, or "M" for mixed mode operations. If needed, enter specific mode type (D-Star, DMR, etc.) in Remarks.
	Remarks	Enter miscellaneous information related to the channel.
5	<b>Special Instructions</b>	Enter any special instructions or other emergency communications needs.
6	<b>Prepared By (Comm Leader)</b>	Enter the name and FCC call sign of the person preparing the form.
7	<b>Prepared Date/Time</b>	Enter date prepared (mm/dd/year) and time prepared (24-hr clock).
8	<b>Page</b>	Enter the page number and number of pages.

# Homework Assignment – ICS-205

- Create an ICS-205 for a simulated event
  - Event name: Simulated Xanadu 100<sup>th</sup> Anniversary - Main Street Parade
  - Activation number: XND-2X-04TC
  - Operational period: Tomorrow from 09:00 to 12:30, parade runs from 10:00 to 12:00
  - Agency/City: Xanadu RACES (simulated city in Santa Clara County).  
Use frequencies from the county frequency list.
  - Nets:
    1. County Resource Net for mobilization and demobilization travel tracking
    2. Parade Tactical for 15-20 “eyes and ears” checkpoints and crowd estimate
    3. Shadow Net for 6-10 principles, 2-3 are key and very active
  - Herman Munster is the event IC - 555-867-5309
  - Create “a well thought out communications plan“
  - Bring your filled-out ICS-205 to class for review. Mark up with any notes while in class. Show to staff before checking-out but take it home with you.

# Homework Assignment – Staffing Plan

Net Control Planning questions. During the class time. Be prepared to volunteer your draft plan and rationale for staffing needs. Assume you can get all volunteers needed. Suggestion is to use a spreadsheet format, include at least:

1. Overview personnel count, credential types, roles, and shifts:
  - Resource Net
  - Parade Tactical
  - Shadow Net
2. What else do you need to make sure is done by you as the planner or someone else?

Note: much of an actual plan gets developed as part of an event planning team. This is just a stretch exercise to explore and discuss some of the basics.

Note: Print it, make any notes during class time. Show to staff before checking-out but take it home with you.

# Homework Assignment – Dispatch Template

Assignment/Dispatch Template for simulated Xanadu 100<sup>th</sup> Anniversary Parade

- Try filling out a dispatch template form.

[https://www.scc-ares-races.org/operations/voice/SCCo\\_Res\\_Net\\_Dispatch\\_Template\\_v20240821.pdf](https://www.scc-ares-races.org/operations/voice/SCCo_Res_Net_Dispatch_Template_v20240821.pdf)

We will discuss the form during class.

Additional information, include the following.

- Staging location: N.E. Corner, Parking Lot, Main St. and 4<sup>th</sup> Ave., Xanadu CA
- Assume location is well placard'd for RACES volunteers, e.g. where to go for staging
- IC briefing for all staff at 09:00
- Assume all volunteers have received an information packet in email well prior to the event
  - What are the key things they need to know on the day of the event?

Note: Print it, make any notes during class time. Show to staff before checking-out but take it home with you.

# Homework Preparation Checklist

<u>Done?</u>	<u>Homework Items to bring to class:</u>
<input type="checkbox"/>	Completed homework: Message Prioritization
<input type="checkbox"/>	Completed homework: Net Manager / Traffic Manager
<input type="checkbox"/>	Stretch homework: ICS-205 communications plan
<input type="checkbox"/>	Stretch homework: Draft event staffing plan
<input type="checkbox"/>	Stretch homework: Draft assignment and dispatch template

<u>Done?</u>	<u>Other Items</u>
<input type="checkbox"/>	If needed, print your credential wallet card. Cards expire on January 31 <sup>st</sup> each year.
<input type="checkbox"/>	If needed, check SCCo go-kit forms for any updates and update personal go-kit
<input type="checkbox"/>	<p>If needed, review your <a href="http://scc-ares-races.org">scc-ares-races.org</a> "My Profile" -&gt; "My Contact Info"</p> <ul style="list-style-type: none"> <li>• Updated any information – also AlertSCC information.</li> <li>• Check the box following "I have reviewed the information on this page"</li> <li>• Press "Save Changes"</li> </ul> <p>Note: please try to do this at the beginning of every year and when there are changes to your contact information</p>

# Thank You!

Some of the homework and the assignment will be reviewed during the class.

The rest you will have to retain in your knowledge.