Cupertino Amateur Radio Emergency Service

Topic: Understanding Open Nets, Field Message Handling

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Date: Thursday, 3-October-2002, 19:30

Event: Cupertino ARES Meeting, Orientation Training

Understanding Open Nets; Field Message Handling



Agenda

- 1. Review of Directed Nets
- 2. Introduction to Open Nets
- 3. How, Where Open Nets can be used
- 4. Field Message Handling
- 5. 2002 Simulated Emergency Test overview



Definition of a Net

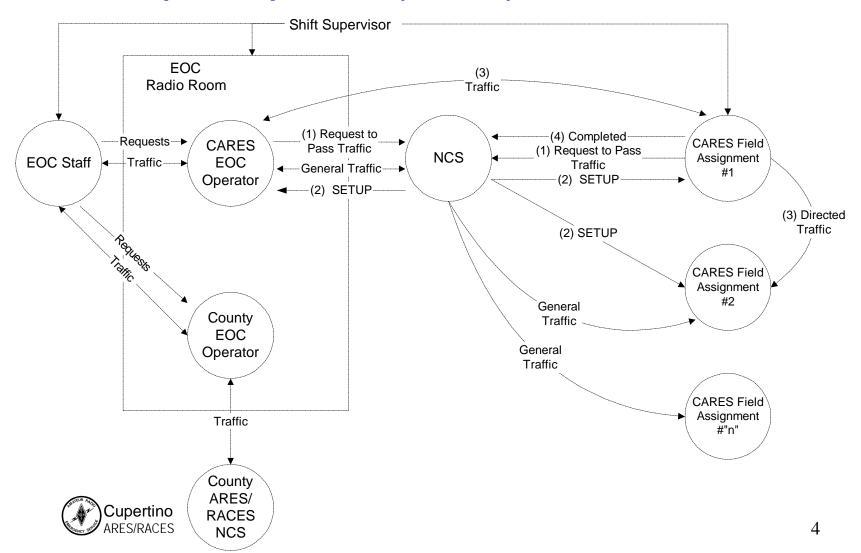
Directed Net

- 1. Established when the amount of stations on the frequency who wish to talk, or the amount of traffic to be handled, cannot be accomplished on a first come-first served basis.
- 2. NCS determines who will use the frequency at a given time.
- 3. NCS acknowledges those stations first that may have incident related traffic in priority order.
- 4. Conversations between stations are kept at a minimum.
- 5. Tactical call signs are assigned to support efficient traffic handling.
- 6. This net is considered formal in nature, and stations having non-incident related traffic may be asked to move to another frequency.



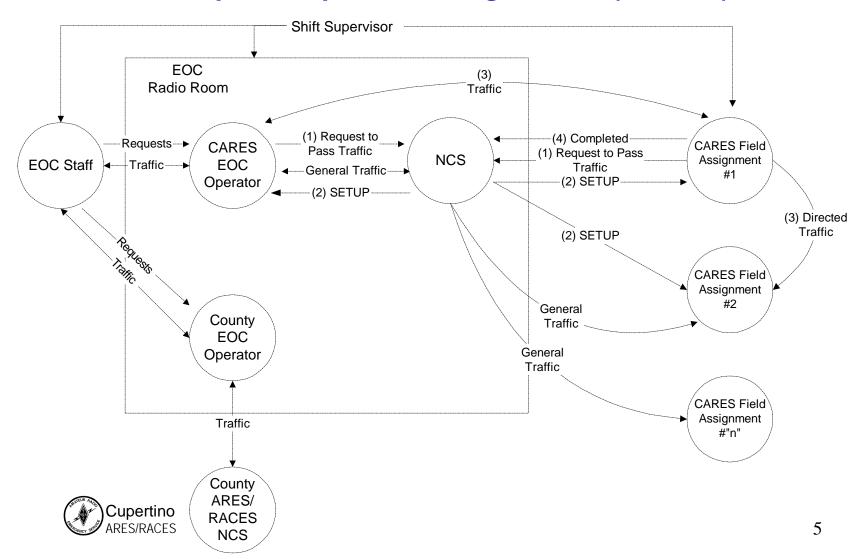
Directed Net

Initial Response Operations (SOP 8.2)



Directed Net

Extended Response Operations, High Traffic (SOP 8.3)



Definitions of a Net

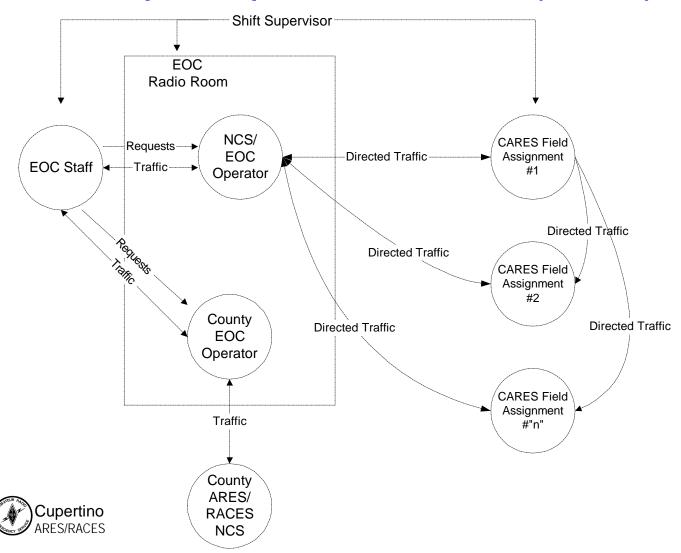
Open Net

- 1. A net may be declared OPEN if the incident has little incident related traffic, or if there is little need to direct individual stations with a Net Control Station.
- 2. An NCS may or may not be required.
- 3. Stations do not need to contact the NCS before making a directed call to another station.
- 4. Incident related traffic may be handled on a point to point basis.
- 5. Most any type of traffic and communications is permitted.
- 6. Conversations are permitted on the frequency, provided that they break every so often to allow incident related traffic to pass.



Open Net

Extended Response Operations, Low Traffic (SOP 8.4)



Recent Examples of Open Nets

- 1. Croy Fire Activation, 26-Sep-02, XSC-02-08
 - County EOC Operated a Resource Net on 146.115+ soliciting volunteers
 - Red Cross operated the *Red Cross Net* on 146.760- to coordinate between HQ, Base Camp, and 2-3 ERVs
 - Traffic was light, informal; H&W checks, responded to inquiries from ERVs to help survivors
 - County EOC monitored; SVECS staffed the Red Cross Net
- 2. Cupertino Decon Drill, 28-Sep-02, CUP-2002-06T
 - Only three stations were required to exchange traffic
 - Traffic was light; unofficial observations were made, some formal messages were sent.
- 3. Cupertino Art & Wine Festival, 13-July-02, Cup-2002-05E
 - Call for Member check-ins, radio and channel checks
 - Very informal



Other Potential Open Nets

1. Cupertino Sanitary District

- CARES supports CuSD's efforts to ensure city pump stations remain operational
- CARES operators ride with CuSD crews as shadows
- CuSD or CARES operates an Open Net
- Cupertino EOC monitors

2. County Fire Support

- CARES supports County Fire with communication between various Fire command positions: Staging Areas, Fire Stations, Officer Shadows
- Cupertino EOC monitors

3. Red Cross

- Red Cross will establish their own net
- Traffic is expected to be light
- One CARES member is the liaison station to the CARES Net



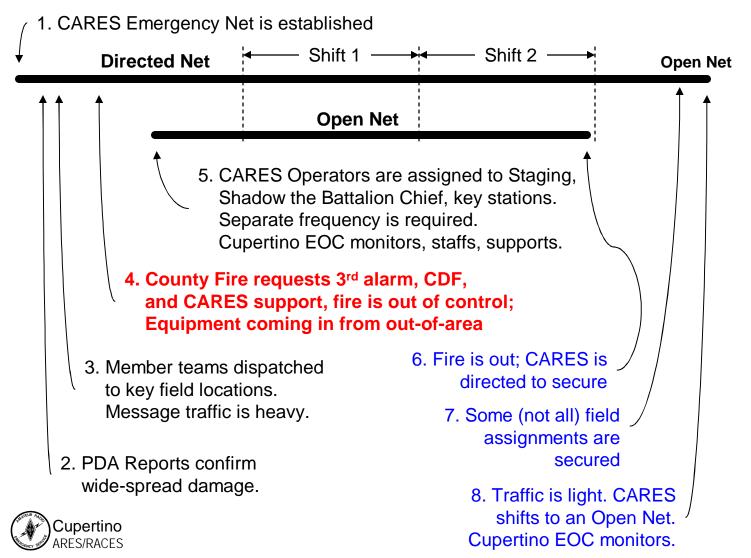
How Nets support an Event

Situation

- October, clear skies, winds are out of the west at 15 to 25 miles per hour
- The Bay Area just had a 7.5 earthquake
- 40% of all residential dwelling will be uninhabitable
- One house catches on fire, and the fire spreads into an adjacent canyon fanned by moderate winds



How Nets support an Event



Comparing Direct & Open Nets

	Directed Net	Open Net
NCS	Required Controls access and flow	Optional; Participant
EOC	Participant in the net	Optional, Participant
Field Responders	Requests permission to pass traffic	Self-originates traffic
Traffic Volume	High	Low
# Stations	High	Low
Non-participating Stations	asked to stand by	OK to use the frequency



What the EOC needs

	Vessage ity here Use instead • Emergency • Urgent • Priority • Routine
2. FROM	[] Urgent [] ASAP [] No Reply 3.
4. TO	5. DATE: 6. ATTENTION OF:
8. MESSAGE	7. SUBJECT:
Signed	
9. REPLY	
Signed	



What message fields are required?

	Directed Net	Open Net
1 Message Number:	From NCS	Optional
2 From:	Required	Required
3 Priority:	Required	Optional
4 To:	Required	Required
5 Date/Time:	Required	Required
6 Attention To:	Optional	Optional
7 Subject:	Required	Optional
8 Message:	Required	Required
9 Reply:	Optional	Depends



The Field Message Handling Reality

- 1. Ideally, we carry pads of pre-printed Message Forms
- 2. Or, minimum things we need to have:
 - Pencils, Clipboard or folder, and any one of these...
 - Spiral note pad
 - Index Cards
 - Pad of Paper
 - other
- 3. How to create your own message forms:
 - One message per page / card / sheet / etc.
 - Quick format each form (next page)
- 4. Creating a message
 - FROM: Know who is giving you the message
 - TO: Know who needs to get it
 - MESSAGE: If detailed or technical, verify you have it correct



Improvising a Field Message Form

Note Pad

From To	Date/Time Priority Msg #		
Message: This is the message that needs to be written down. Watch the details			
Reply Write down the reply on the back of the card. If it is going back to the originator, deliver it to him/her			



Index Card Method

From Priority
To Msg #

Message:

This is the message that needs to be written down. Watch the details

Reply

Front Side

Write down the reply on the back of the card. If it is going back to the originator, deliver it to him/her

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What is said	What should happen
"K6KKK, this is W6WWW with formal traffic"	W6WWW should be sure to write the message down verbatim
"Channel Check"	NCS or other station should respond with status of the net: "Net is Open/Directed" "Stand By"

