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2014 Year End Summary

Updates and Review



Santa Clara County ARES®/RACES

Revised: 19-Dec-2014

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Housekeeping

- Refreshments
- Pen/pencil & paper
- · Cell phones & pagers
- Side conversations
- Questions
- Breaks
- Restrooms
- In case of emergency

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Agenda

- An update on changes that have occurred during the past year, plus a review of some key procedures.
- Topics covered:
 - Packet Operations
 - Net Control
 - Message Passing
 - ... and, for extra fun, a quiz!





Packet Network Update

2014 Year End Summary



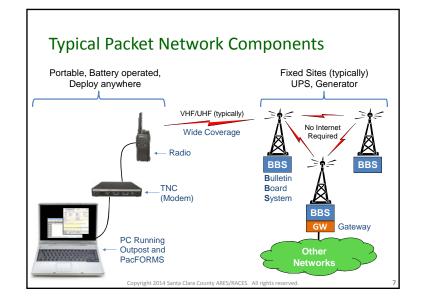
Santa Clara County ARES®/RACES

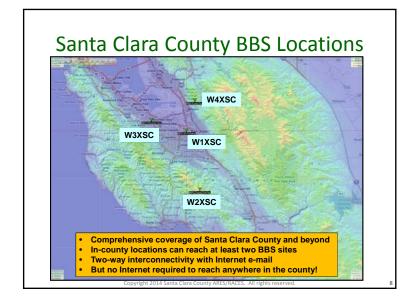
Revised: 19-Dec-2014

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Agenda

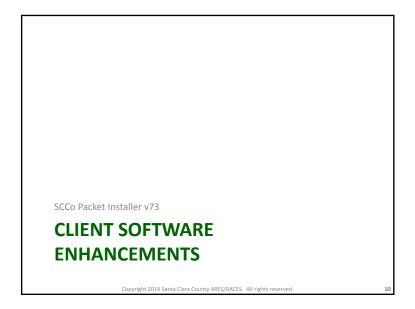
- Packet Overview
- Client Software: SCCo Packet Installer v73
- BBS Functionality
- Network Connectivity





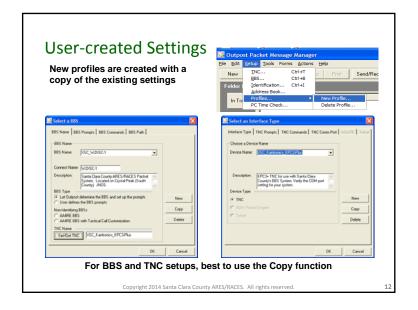
Why Packet?

- Fast
 - 20 seconds to send error free message (vs. 2-3+ min. by voice)
- Accurate
 - No hearing, transcription, copying, logging, legibility problems
- Deployable
 - Anywhere in the county; VHF doesn't need strict line of sight
- Reliable
 - UPS and Generator at all hub sites
 - Reach at least two BBSs from anywhere in the county
- Meets agency needs for EmComm
 - PacFORMS reproduces format of standard county forms
 - Plain text for quick message or cut-and-paste data from other apps
 - E-mail gateway for health & welfare traffic to families



Outpost Enhancements

- Setup > Identification
 - Improved ease of switching between FCC and tactical call signs
- Setup > TNC
 - Updated TNC initialization command lists
 - Helps avoid some commonly seen problems with new users
- Setup > BBS
 - Added BBS initialization command lists
 - Helps avoid hangs due to XM (page length) not being set to zero
- Plain Text Delivery Receipts
 - Email users now receive human-readable delivery receipts
 - Great for health & welfare traffic to/from family members



Outpost Enhancements (cont.)

- Session Monitoring
 - Session status now visible in the Status Line at the bottom of the main Outpost window
- Message size increased to 65 kB
 - Improves ability to cut-and-paste data from other applications
 - Enables manual UUENCODE attachments (caution!)
- Consistent use of "P" suffix
 - Indicates Outpost-generated message number
- Improved "Send" button placement

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More Info / Future Enhancements

- For more details on Outpost, PacFORMS or the v73 Installer
 - Main Page
 - http://www.scc-ares-races.org/packet.html
 - Details for Packet Installer
 - http://www.scc-ares-races.org/packet/net/Packet_Network_Update_2014-10-27 New Installer.pdf
 - New BBS call routing
 - http://www.scc-ares-races.org/packet/net/Packet Network Update 2014-09-18 Tactical-Call-Routing.pdf
- Future enhancements currently being designed, implemented
 - More ease of use
 - Enhanced bulletin management
 - Enhanced profile management
 - Attachments?

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PacFORMS and Other Enhancements

- PacFORMS Changes
 - All users
 - · Minor typo-fixes
 - ECs, AECs
 - · RIMS forms have been removed
 - Hospital net
 - · Updated hospital forms
- Web Site / Documentation changes
 - Main packet page
 - http://www.scc-ares-races.org/packet.html
 - Configuration and Setup Instructions
 - Standard Outpost Configuration Instructions (PDF)
 - Standard TNC Parameter Settings (PDF)
 - Updated for Kenwood TH-D72A, Kantronics 9612, MFJ 1270/1274 B vs C

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BBS FUNCTIONALITY

JNOS Software Enhancements

- JNOS is the BBS software we use
- It continues to be actively developed/improved
- Some recent improvements to JNOS internals that were helpful to our configuration and use:
 - Improved address handling options
 - Improved logging options
 - Improved mailbox expiration options
 - Improved UDP tunneling through firewalls
 - Improved IP routing options
 - Bug fix: UTF-8 character set handling
 - Bug fix: Some outbound e-mails to Internet had missing domain

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17

SCCo BBS Functionality Enhancements

- Eliminated auto-forwarding of tactical calls
 - Message to all call signs, FCC or tactical now act the same
 - Standard format: callsign@bbscall or callsign@bbscall.ampr.org
 - Example: Herman Munster at W2XSC
 - w6xrl4@w2xsc or w6xrl4@w2xsc.ampr.org
 - Example: Xanadu EOC at W4XSC
 - xndeoc@w4xsc or xndeoc@w4xsc.ampr.org
 - If no domain (@...) is specified, message stays on the local BBS
 - Error rate of weekly check-ins is much lower now!
- Revamped internal address parsing rules
 - BBS hierarchical addresses, Internet addresses, NTS traffic, bulletins
- Improved bulletin handling
 - Bulletin area names, forwarding rules, ...

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18

Bulletins Overview

- Bulletins are messages that are intended for broad readership
- Bulletins content varies from amber alerts and earthquake reports to jokes and recipes
- Bulletin sender controls how widely the bulletin is distributed
 - Can be as narrow as "local" (this BBS only)
 - Can be as wide as "ww" (worldwide)!
- In JNOS, bulletins are sorted into shared areas (mailboxes) for easier reading
- This update will cover just the basics of reading bulletins
- More details will follow soon

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Bulletins – Why Do They Matter?

- Standard way to distribute information between BBSs of all types throughout the world
- Use them for fun or for emergency communications
- Use them for distributing information to broader areas:
 - Santa Clara County
 - San Francisco Bay area
 - Northern California
 - All California
 - And wider ...
- Example:
 - During the 2009 cable cut, information about anticipated service restoration times were distributed via bulletins by a ham who had information from the telecom carrier

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20

Bulletin Addresses

- · Address format: category@distribution
- · Category:
 - A six-character or shorter description of the main topic of the bulletin.
 - Sender picks the category based on the contents of the bulletin
 - Example categories:
 - · amber Amber alerts
 - · equake Earthquake reports
 - · flood Flood reports
 - swpc Space Weather Prediction Center
 - humor or humour Jokes, stories, etc.
 - Any category works on our SCCo BBSs because we sort bulletins by distribution, not category
 - Uncommon/unusual categories may be held on other BBSs until the sysop decides where it should go

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Bulletin Addresses (continued)

- Address format: category@distribution
- Distribution
 - A six-character or shorter keyword which defines how widely the bulletin will be distributed
 - Sender picks from a pre-defined list
 - Acceptable distributions:
 - · local Local BBS only
 - xsc XSC Operational Area (Santa Clara County)
 - bay San Francisco and Monterey Bay area
 - nca Northern California (generally North of the Tahachapi Mountains)
 - ca California
 - · wusa Western USA (generally, West of the Mississippi River)
 - usa United States of America
 - · noam North America (Canada, USA, Mexico, ...)
 - ww worldwide

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2

Bulletin Addresses (continued)

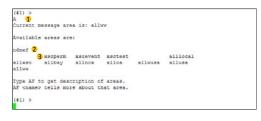
- Example bulletin addresses:
 - flood@xsc
 - Information about flooding for distribution to all BBSs in Santa Clara County
 - equake@bay
 - Information about an earthquake for distribution to all BBSs in the San Francisco and Monterey Bay areas
 - equake@nca
 - Information about an earthquake for distribution to all BBSs in Northern California
 - swpc@ww
 - Space Weather Prediction Center reports for distribution to all BBSs worldwide
 - humour@ww
 - · Variety of jokes and funny stories

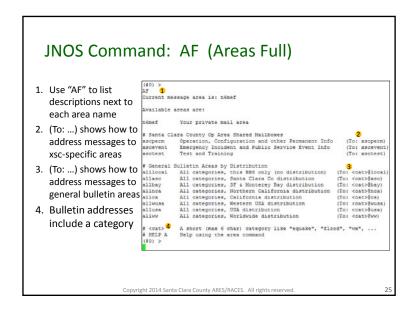
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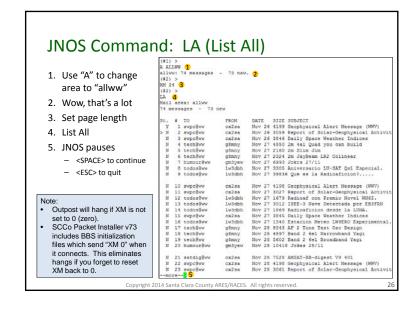
JNOS Command: A (Area)

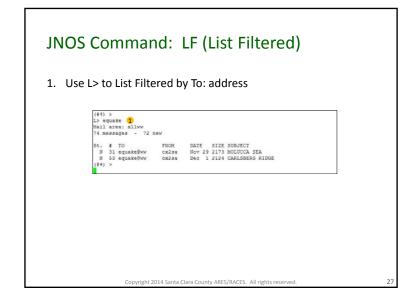
Use a terminal emulator such as Ipserial or PuTTY and your TNC/Radio to connect to the BBS for reading general bulletins

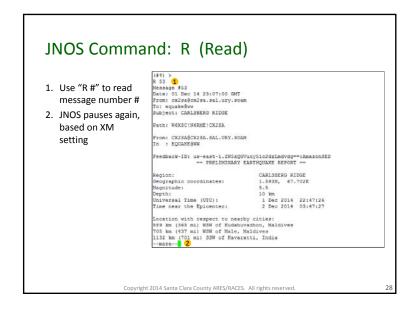
- 1. Type the JNOS "A" command to list areas that you can read
- 2. Your own area (mailbox) is listed first
- 3. Other shared mailboxes and bulletin areas are listed next

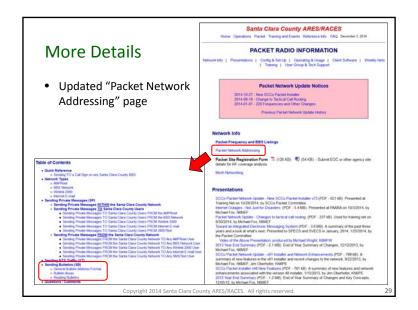












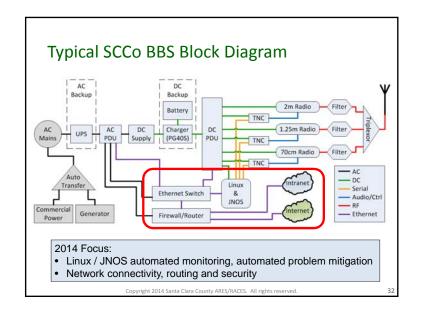
Bulletins - Current and Future

- For now, we'd like everyone to start familiarizing themselves with how to read bulletins
 - Use a terminal emulator such as Ipserial or PuTTY and browse the existing bulletins to learn what they look like and how they are used
 - Do <u>NOT</u> adjust the Outpost bulletin settings to add the general bulletin areas
 - There are far too many bulletins and some are very, very long
 - · You will hog the channel for a long, long time
 - Read the Packet Network Addressing web page to learn more details about bulletin addresses.
- We're currently defining some future Outpost enhancements to help with reading more narrow subsets of bulletins
- Stay tuned for more details in the spring

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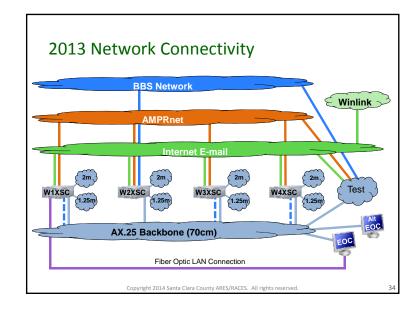
NETWORK CONNECTIVITY
ENHANCEMENTS

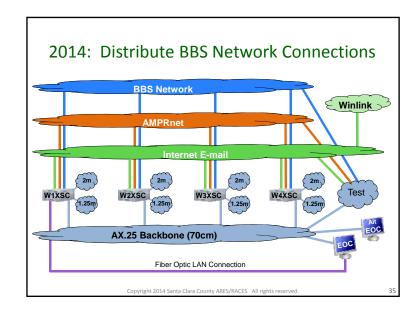
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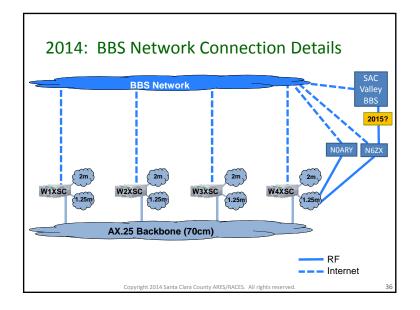


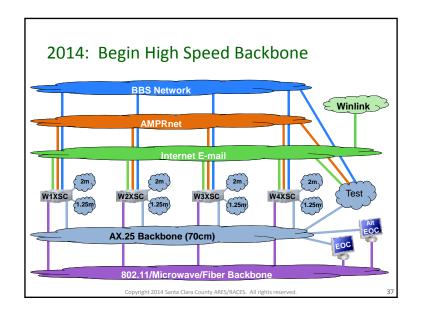
2014 Networking Focus

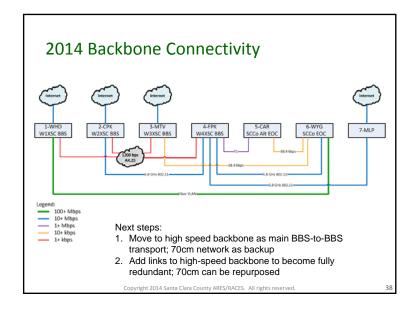
- Migrate to RF connectivity with other Bay area BBSs
 - NOARY Mt. Umunhum
 - N6ZX Woodside (covers most of San Mateo County)
 - Resulted in 220 frequency change between W2XSC and W4XSC
- Fully distribute BBS network connections to all BBSs
- Begin installation of redundant, high-speed backbone







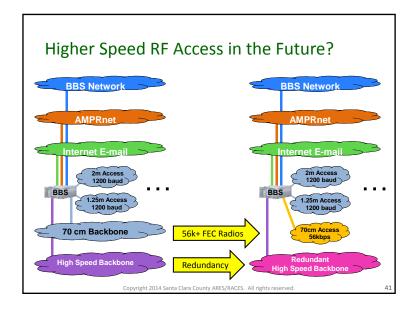






Improved Network Monitoring / Automation

- Power and environmental monitoring at mountain locations
 - AC mains, UPS, battery voltage, temperature, humidity
- Mail queue monitoring
 - Identifies problems with mail queue: hung, address processing problems
- AMPRnet routing updates
 - Improved sanity checks before applying updated routes; updates twice daily
- JNOS-to-JNOS Connectivity Watchdog
 - Runs on all BBS machines
 - Monitors responses from local and all remote SCCo BBSs
 - Restarts local JNOS if not responding
- Internet connectivity monitoring
 - Identifies loss of Internet connectivity at all sites



Questions / Technical Support

- Yahoo Group: scc-packet
 - https://groups.yahoo.com/group/scc-packet
- 180+ members
 - If you have a question about packet radio, someone on that list is bound to have an answer!
- Closed list to avoid SPAM
 - Be sure to follow instructions on the main group page to provide the correct information when you request to join

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Links

- Details for Packet Installer
 - http://www.scc-ares-races.org/packet/net/Packet Network Update 2014-10-27 New Installer.pdf
- New BBS call routing

http://www.scc-ares-races.org/packet/net/Packet Network Update 2014-09-18 Tactical-Call-Routing.pdf

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END





Net Control Review

2014 Year End Summary



Santa Clara County ARES®/RACES

Last Updated: 09-Dec-2014

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Exercise: ICS-214 Unit Log

- Create an ICS-214 log for the following scenario in City of Xanadu (XND)
 - Incident is "Training Class Exercise", activation code XND-14-TCE
 - The class will begin at 0900 hours and end at 1200 hours
 - You leave home at 0815 hours
 - You arrive at the training location at 0845 hours
 - The class starts at 0900

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ICS 214 – Unit Activity Log

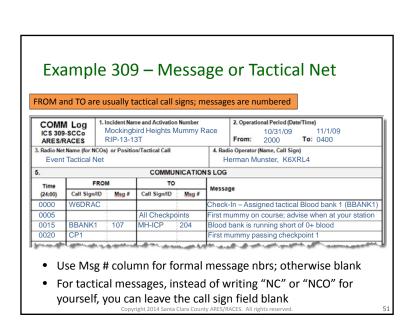
- Our version: ICS 214-SCCo
- A record of all major activities and
- EVERYONE fills out a 214
 - Individuals: a unit of one
 - Teams: Team leader
 - Start when you get assignment (home)
- Occasional message traffic?
 - Just log it right on the 214
- · Use multiple pages if necessary
- Turn in to supervisor at end of shift
- Instructions on back

http://www.scc-ares-races.org/operations.html

UNIT LICS 214-S ARES/RA	CCo	1. Incident Name and A Training Cl XND-14-TO	ass Exercise	2. Operational Perio 12/13/ From: 0900		12/13/2014 1200	
3. Unit Name /		I Call / Designators	-	4. Unit Leader (Name, Call Sig			
5.	arrie		Percennel	Your Name, Your FO Roster Assigned	JU Gall Sig	1/1	_
J.	Na	ame	Call Sign	ICS Position	1	Home Base/City	
6.			AC	TIVITY LOG			
Time (24:00)				TIVITY LOG asional Messages (indicate Fr	om / To / Msg# /	Msg Text)	
Time (24:00) 0815		Ноте	ities & Events / Occ		om / To / Msg# /	Msg Text)	
	Arriv	Home ed at training class	ities & Events / Occ		om / To / Msg# /	Msg Text)	
Time (24:00) 0815	Arriv	Ноте	ities & Events / Occ		om / To / Msg# /	Msg Text)	
7 Time (24:00) 0815 0845	Arriv	Home ed at training class	ities & Events / Occ		om / To / Msg# /	Msg Text)	
7 Time (24:00) 0815 0845	Arriv	Home ed at training class	ities & Events / Occ		om / To / Msg# /	Msg Text)	
7 Time (24:00) 0815 0845 0900	Arrive	Home ed at training class	ities & Events / Occ		om / To / Msg# /	Msg Text)	

Our version: ICS 309-SCCo Net Control Operators and stations with high message traffic Columns help organize key message tracking info Does not replace 214 EVERYONE fills out a 214 Turn in to supervisor at end of shift Instructions on back

http://www.scc-ares-races.org/operations.html



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Example 309 – Resource Net FROM and TO are usually FCC Call Signs; no message numbers 1. Incident Name and Activation Number 2. Operational Period (Date/Time) COMM Log Mockingbird Heights Mummy Race 10/31/09 ICS 309-SCCo RIP-13-13T From: 2000 To: 0400 ARES/RACES 3. Radio Net Name (for NCOs) or Position/Tactical Call 4. Radio Operator (Name, Call Sign) Resource Net Wolf Man, W6WOOF COMMUNICATIONS LOG Message Call Sign/ID Msq # Call Sign/ID Msq # (24:00)2300 W6XRL4 Leaving home - 1313 Mockingbird Lane ODO 123 2315 W6XRL4 H&W - Highway 13 - ODO 141 W6XRL4 Arrived ICP ODO 150; Check-Out · Recommended: instead of writing "NC" or "NCO" for yourself, leave the call sign field blank Makes it easier to see which messages were from/to field operators Copyright 2014 Santa Clara County ARES/RACES. All rights reserved.

ICS 309 Start/Shift Change/End of Net Entries

- Log an entry for start of net, shift changes, and end of net
- Helps to figure out which person handled which messages and confirms end of log

Sign/ID	Msg #	Call Sign/ID	Msg #	Message Start Net Net Control = Your Name, <your call="" sign=""> Scribe = Herman Munster, W6XLR4</your>
				Net Control = Your Name, <your call="" sign=""></your>
				Scribe = Herman Munster, W6XLR4
				Shift Change
				Net Control = Herman Munster, W6XLR4
				Scribe = Your Name, <your call="" sign=""></your>
				Net Closed

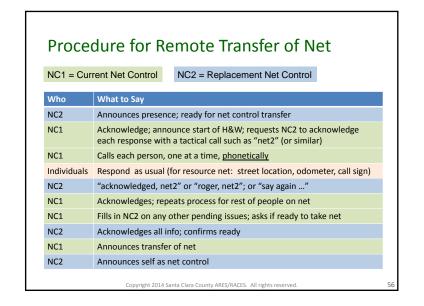
Exercise: ICS-309 Communications Log

- Create an ICS-309 log for the following scenario in City of Xanadu (XND)
 - Incident is "Training Class Exercise", activation code XND-14-TCE
 - Operational period is from 11:00AM to 2:00PM on December 13, 2014
 - You start the net as NCO for the city's tactical net at 11:45 AM
 - Your scribe is Herman Munster, W6XRL4
 - You receive a message from Shelter 2 to the XND EOC at 11:55 AM
 - Their msg # S2-013; your msg # XND-106; subject = "Bed count"
 - Joe Hamm, KJ6HAM, checks in at 12:10 PM; assigned tactical call "Shelter 1"
 - Betty Ham, KB6HAM, checks in at 12:20 PM; assigned tactical call "Shelter 3"
 - The XND EOC sends a message to Shelter 3 at 12:50 PM
 - Your msg # XND-107; their msg # S3-1004; subject = "Inventory checklist"
 - You receive a message from Shelter 1 to the XND EOC at 1:05 PM
 - Their msg # S1-021; your msg # XND-108; subject = "Supply status"
 - You send to All Shelters at 1:10 PM, your msg # XND-109, "Exercise complete"
 - Shelters respond with their msg #s: S1-022; S2-014; S3-1005
 - You close the net at 1:30 PM

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Exercise: ICS-309 Communications Log COMM Log Training Class Exercise 12/13/2014 12/13/2014 ICS 309-SCCo To: 1400 From: 1100 ARES/RACES XND-14-TCE Radio Net Name (for NCOs) or Position/Tactical Call 4. Radio Operator (Name, Call Sign) Xanadu Tactical Net Your name, your FCC call sign COMMUNICATIONS LOG FROM Message (24:00) Call Sign/ID Call Sign/ID Msg # Msg# 1145 Start Net Net Control = Your Name, <your call sign> Scribe = Herman Munster, W6XLR4 XND-106 Bed count Shelter 2 S2-013 EOC 1210 KJ6HAM check-in - assigned tactical = Shelter 1 KB6HAM check-in – assigned tactical = Shelter 3 1250 EOC XND-107 Shelter 3 S3-1004 Inventory checklist S1-021 EOC 1305 Supply status XND-109 All Shelters Exercise complete --- Confirmation #s follow 1311 Shelter 1 S1-022 1312 Shelter 2 S2-014 1313 Shelter 3 S3-1005 1330 Copyright 2014 Santa Clara County ARES/RACES. All rights reserved

Exercise: ICS-309 Communications Log Don't forget the bottom of the form! One of the form!



Exercise: Transfer of Level 3 Resource Net

- Need 3-4 volunteers
 - Net Control 2
 - Scribe for Net Control 2 (optional)
 - Traveler 1 & 2
- Rest of class: log as if you were Net Control 2 with no scribe
 - Use both ICS-309 and Travel Tracking Form
- · Before you start:
 - Net Control 1: write down traveler call signs
 - Travelers: make up a street location and odometer reading
- Follow the script ...
 - "<...>" indicates where you substitute your actual information
 - Example: <NC2 call sign> means you say Net Control 2's call sign
 - Net Control 2: fill in ICS-309 as you go
 - Scribe for NCO2: fill in Travel Tracking Form as you go

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Exercise: Transfer of Level 3 Resource Net What to Say NC2 Net control, this is <NC2 call sign>, ready for net control transfer NC1 <NC2 call sign> roger; Break; All stations - I will now conduct a H&W check; when I call you, respond with street location, odometer and your call sign; <NC2 call sign> after each response, either request a fill or acknowledge; use tactical call net-2 NC1 <traveler 1 call sign spelled phonetically>, health and welfare Traveler 1 <street location> <odometer> <call sign> NC2 Roger, net2 NC1 Roger. <traveler 2 call sign spelled phonetically>, health and welfare <street location> <odometer> <call sign> Traveler 2 NC2 Say again odometer <odometer> <call sign> Traveler 2 NC2 Roger, net2 Roger. Health and welfare check complete Continued on next page ... Copyright 2014 Santa Clara County ARES/RACES. All rights reserved

Exercise: Transfer of Level 3 Resource Net Continued from previous page ... Who What NC1 Net2, do you need any other fills? NC2 NC1 O.K. Additional information follows: You need to contact Jenny at 867-5309 to unlink the repeaters after you close the net. NC2 Acknowledged. NC1 Are you ready to take the net? NC2 Affirmative. NC1 This is <NC1 call sign> turning over net control to <NC2 call sign>; <NC1 call sign> clear. NC2 This is <NC2 call sign>, net control for the Santa Clara County Resource Net. This is a directed net... Copyright 2014 Santa Clara County ARES/RACES. All rights reserved

Resulting Logs for Net Control 2 (New NC) ICS-309 COMMUNICATIONS LOG EROM Message (24:00) Call Sign/ID Msg # Call Sign/ID Msg # 1150 :New NC> Check-in – assigned "net2" tactical 1151 Traveler1 H&W Maple Street; odo 123 1152 Traveler2> H&W Red Street; odo 321 Old NC> ALL Relinquished net; checked out 1153 ALI <New NC> Taking over as new net control **Travel Tracking Form** 4. Traveler Status (00:00 24-hour -or- + 3. Call Sign <Traveler <Traveler2: Copyright 2014 Santa Clara County ARES/RACES. All rights reserved





Message Passing

2014 Year End Summary



Santa Clara County ARES®/RACES

Updated 2014-12-11

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END

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Agenda

- Review of basic concepts
- Message passing
 - Basics
- Message Forms
 - Formal
 - -Informal
- Exercises, exercises, exercises...

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- Messages must be passed correctly and concisely
- Illegible messages should go back to the Shift Supervisor or message originator for clarification.
- If you are given a verbal message, write it out, and get approval fro

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64

Points to Remember...



- Identify with tactical call, and use your FCC call every 10 minutes and at end of communication
- Transmit only facts, not conjecture
- Avoid sending personal or confidential information that you don't want seen on the "Nightly News"
 - Dead bodies

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65

Use Control Phrases

- These words are spoken to begin or end the message, indicate information for the receiving operator, or to separate parts of the message
 - "All stations standby" or "All stations hold your traffic"

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c 7

Effective Radio Techniques



- Make only necessary transmissions
- Use procedures and techniques to reduce the number of transmissions
- Use a minimum of words to convey a message
- Drop PTT when not speaking; avoid "open mic" or "dead air"

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66

Message Passing Do's & Don'ts

- Do not repeat the message
- Do not use Q-codes or 10-codes
- Do say numbers correctly: 11 is "figures one one"
- Do say time and date correctly
- Do minimize words; use Prowords:
 - "the date is ..." → "date ..."
 - "Sorry, I didn't get that. Can you repeat ..." → "say again ..."
- Do record message #s
- Do send your message # when done receiving
- Do get acks from all stations in multi-station msg passing
- Do practice copying call signs
- Do practice standard ITU phonetics

Message Passing Exercise



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How did you do?

- KJ6ACE
- KI6DDX
- KJ6CBR
- KI6RLD
- WU6V
- KI6IUT
- AE6ZY
- W6HW
- KK6VF
- KG6UWO
- KC6SKM
- KZ6O

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Catch that Callsign???? Comprehension is critical

- Take out your form one
- The instructor will read a list of callsigns
- See if you can get them all correctly.

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Message Handling Prowords

- I SPELL
 - Used to indicate you are going back to spell the group just voiced. It is used with ONE GROUP AT A TIME, and is said IMMEDIATELY after voicing the group, followed by either phonetic or letter spelling of the group.
- I SAY AGAIN to repeat for clarity
 - Say the group(s), then "I say again", repeat the group(s), and then continue. It is wise to limit repeats for clarity to one group at a time to avoid confusion. In bad radio conditions, however, repeating phrases or whole lines of a message can increase the chance for correct copy.
- SAY AGAIN ... to request a repeat
 - Used by the receiver to request a repeat. Followed by a qualifier.
 Example: SAY AGAIN WORD AFTER ...

Message Handling Prowords

- WORD AFTER "Say again word after..."
 - Respond with group or part requested
- WORD BEFORE "Say again word before..."
 - Respond with group or part requested;
- BETWEEN "Say again between... and..."
 - Respond with group(s) between blanks, observing limits
- ALL AFTER "Say again all after..."
 - Respond with all groups after the one specified to the end of the message, unless limited
- ALL BEFORE "Say again all before..."
 - Respond with all groups in the message to the group specified, unless limited

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72

Message Forms - formal

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Some Rules of Thumb

- PAUSES
 - Pauses are crucially important tools in voicing messages. Pauses exist between words/letters, groups (essential for clarity and separation)
- SPELLING
 - Spell with letters or phonetics based on radio conditions, interference, or type of group. Use only standard phonetics.
 - ALWAYS use standard ITU phonetics
- PUNCTUATION (per SCC RACES practice)
 - Written "." will continue to be used at the end of a sentence, not a separate word group.
 - Spoken "." will be said as "period"
 - Written "?" will continue to be used at the end of a sentence, not a separate word group.

Spoken – "?" will be said as "question mark"

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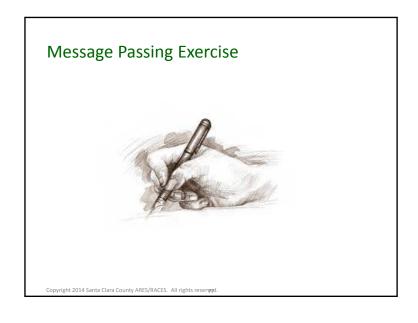
Recommended Transmission Process

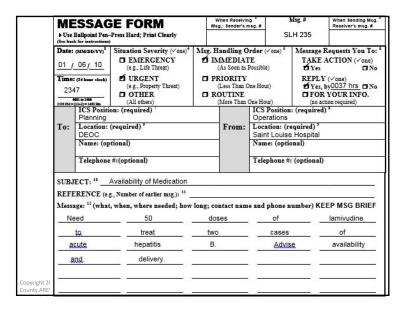
- Sender (wait for ACK each step)
 - Message #, Date, Time
 - Severity, Handling, Requests
 - To, From
 - Subject
 - Reference (if any)
 - Message 5 words at a time
 - "End of message"
- Receiver
 - "Ack each section, or use prowords to ask for a repeat"
 - "Ack the end of the message and respond with your message number."
 - "End the transmission with your call sign"
 - "Fill in the bottom part of the form, record it and hand it off as needed"

Sende

- ACK / Fill in receiver's message #
- "This is <call sign>"
- Fill in Operator Info
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Message Forms - informal

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Critical components to capture....

Informal messages could be received verbally, or on any manner of writing material. From neatly written to total scribble and cryptic notes...

It's most important to capture the following key elements. At a minimum you <u>might</u> get:

• Who to / Who from / message details

Make sure you add the following:

• Date / Time / contact number/method

Example of an unfamiliar form: Donut Ordering Form

Date: 01-07-11 Time: 1050 hrs.

Person Ordering: John Henry

Glazed: 1 doz Jelly: 1 Plain: 24

Bear Claws: 1/2 doz.

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INFORMAL

• Take out a Form 1

· What was missing?

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Message Passing Exercise



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Message Passing – problem solving

If an Operator is sending a message poorly (say a ICS213) – what do you do?

- You can suggest a process of, "left to right, top to bottom, 5words at a time"
- If that doesn't work, then you switch to a more directive approach by asking for individual fields: message number?, date?, time? To position?, etc.
- If, after going through that once, and the next message isn't done properly, might be time to suggest another operator (through discrete channels)

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If an Operator is sending a message poorly (using an unfamiliar form you haven't seen) – what do you do?

- Try suggesting: "First, tell me the names of each of the fields on the form, left to right, top to bottom. Pause after each one (or five) and wait for an acknowledgement by me. If the fields are numbered, tell me the number when you tell me the field name"
- Then ask for each piece of info by the field name.

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Message Passing Exercise



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Thank You!

We look forward to seeing you again next year:
Classes, drills, events, ...