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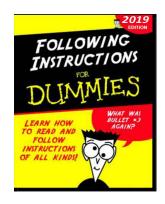
HOUSEKEEPING

• Introductions

1

3

- · Pen/pencil & paper
- Cell phones
- Side Conversations
- Questions
- Breaks Water only in this room
- Restrooms
- In case of emergency
- Parking move at first break







2022 Year End **Updates**



Santa Clara County ARES®/RACES Revised: Dec 4, 2022

Agenda

- Packet Network Update
- Weekly Packet Practice
- Monthly Packet Message Passing Practice
- · Message Passing
- ARRL SET
- Credentialing Program
- 2023 Training



Packet Network Update

2022 Year End Review, 2023 Plans

> Jim Oberhofer, KN6PE Revised 3 December 2022

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2022 Packet Classes

By the numbers

- 153 classroom hours spent (not counting homework)
- 51 class sign-ups (all 3 classes)
 - 19 in Packet IIIA
 - 19 in Packet IIIB
 - 13 in Packet II
- 25 unique participants
- 6 packet Ops attended only one class
- 12 packet Ops attended only two classes
- 7 packet Ops attended all three classes

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Packet Training

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2022 Packet Classes

Year over Year participation

	2017	2018	2019	2020	2021	2022
	ClassRm	ClassRm	ClassRm	Zoom	Zoom	ClassRm
classroom hours spent	360	318	288	315	342	153
class sign-ups (all 3 classes)	120	116	96	105	114	51
Packet IIIA	49	46	33	42	44	19
Packet IIIB	42	35	29	29	32	19
Packet II	29	25	24	34	38	13

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Packet Class Exercises

- Packet IIIA content workbook Intro to Outpost and PackItForms
- Packet IIIB scripted exercise check-ins, message passing, check-out
- Packet II scripted exercise similar to IIIB but without Outpost!
- To get class credit, you had to do three things:
 - Show up for the class
 - Complete the class evaluation
 - Complete the homework
- While not part of the Packet II class, ~40% went on to do the November Monthly Packet Message Passing Exercise manually.

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What's in the box?

- SCCo Integrated Packet Installer 161G
 - Outpost Packet Message Manager
 - GUI-based interface for managing packet communications
 - Makes using packet as simple as using e-mail
 - PackItForms
 - Next generation HTML-based forms for use with Outpost
 - Headless Chrome for auto-printing support

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Highlights -- Outpost and PackItForms

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SCCo Installer v161G September 2022

PackItForm 3.9*

- New Check-in/Check-out form
- · Several forms now with initial field values set
- PackItForms align with the Recommended Form Routing Cheat-sheet
- · Other enhancements, minor changes

Outpost v3.6.0*

- Rolls back Installer to support XP system and earlier installations
- Removes PacForms from the Forms menu (but is still installed)
- Other minor functionality changes to address SCC defects

*See the release notes for details

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Top 6 packet "what's new" items for 2022

- 1. New PackItForm defaults
- 2. New Check-in/out form
- 3. New city notice retrieve setting
- 4. Message ID Suffix characters
- 5. Manual Ops a focus on putty
- 6. Packet USB Stick Suggestions for P2, P1 qualifications

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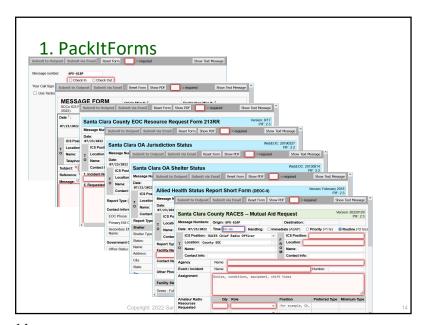
13

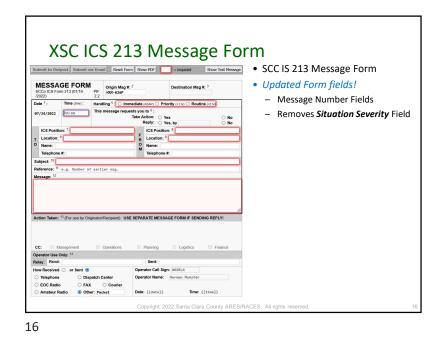
County Use of PackItForms

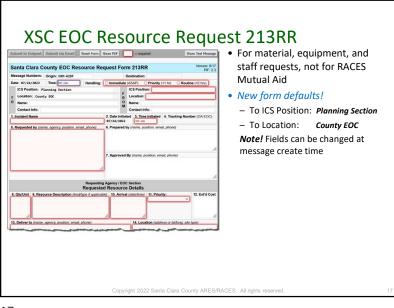
- Santa Clara County PackItForms contains these public forms
 - 1. XSC Check-In/Out Message Form
 - XSC ICS-213 Message Form adapted for Santa Clara County to transmit messages.
 - XSC EOC-213RR Resource Request Form Requests specific resources needed to support an emergency.
 - XSC OA Jurisdiction Status Form Reports jurisdiction emergency situation status to county OEM.
 - XSC OA Shelter Status Form Reports information and status on shelters opened in the cities to county OEM.
 - XSC Allied Health Facility Status Reports information & status of private Skilled Nursing facilities to SCC Public Health Department.
 - XSC RACES Mutual Aid Request Form Used by a jurisdiction to request a RACES Mutual Aid.
- The SCC Installer program automatically installs these packet forms along with Outpost.
 - Additional forms may be provided by your EC

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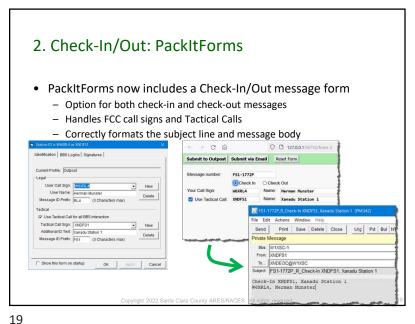
15







17



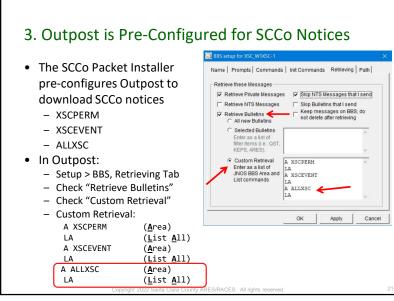
1. New PackItForm Defaults PackItForms Handling Order TO ICS Position To Location ICS 213 Message Form **EOC Resource Request 213RR** Planning Section County EOC OA Jurisdiction Status Situation analysis Unit Immediate County EOC OA Shelter Status Priority Mass Care and Shelter Unit Allied Health Status Routine **EMS Unit** MHJOC RACES Mutual Aid Request Routine RACES Chief Radio Officer County EOC • Aligns with the RACES Recommended Form Routing Cheat Sheet · Similar default settings for the Hospital PackItForms Fields can be changed at message create time • Always double-check the RACES Recommended Form Routing Cheat Sheet for your specific situation

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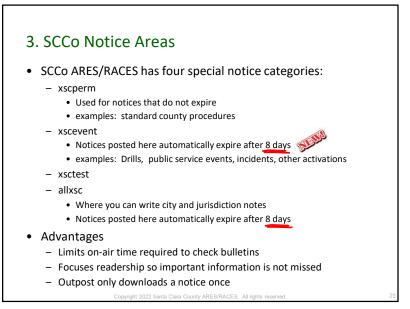
2. Check-In/Out Messages

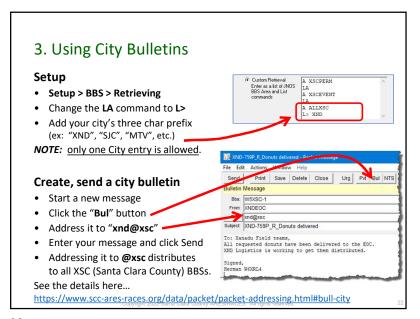
General rules during field assignments

- Check in and out using your assigned Tactical Call, not your FCC call
- Check-in as soon as the station is ready
- Check-out before shutting down the station using your Tactical Call
- Always send as plain text messages
- Always use [HandlingOrder] = "_R_"
 - Handling Order = R (Routine)
- Always follow the standard subject line format
 - · With specific check-in/out details for subject and message body

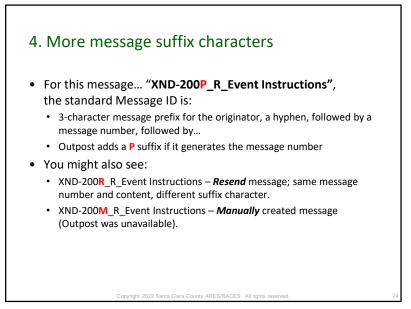


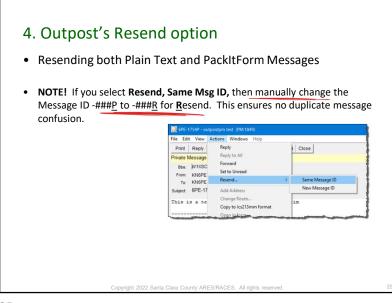
21



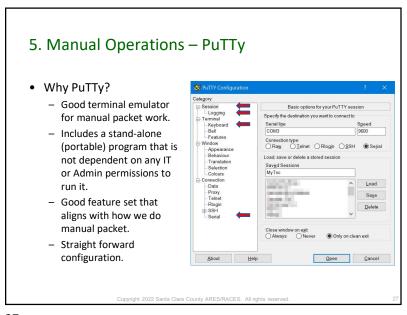


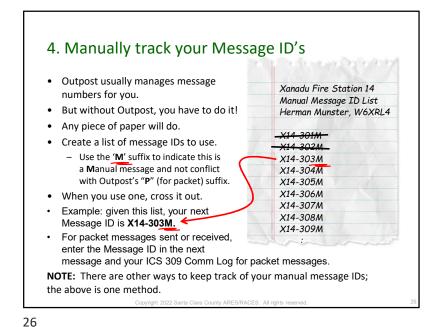
22

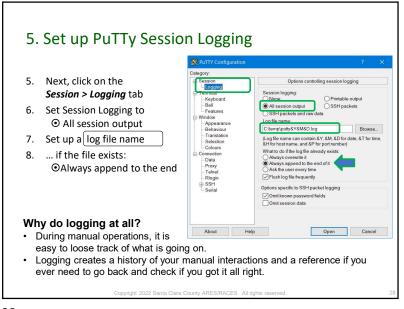




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6. Packet USB Stick Suggestions

or, could Manual Packet Ops really happen to me?

- Better to be safe than sorry... Build your USB packet memory stick now!
- Directories (suggested)
 - x:\Programs
 - Putty installer (https://www.putty.org/)
 - Putty standalone executables (https://www.putty.org/ > Alternate Bin Files)
 - SCCo PackItForm Directory (C:\PackItForms\Outpost\SCCo)
 - SCCo Packet Installer (https://www.scc-ares-races.org/data/packet/client-software.html)
 - Office Libre Portable version (https://www.libreoffice.org/download/portable-versions/)
 - x:\SCC Notices
 - downloaded text version (SCCo Packet Check-In~Out v220324.txt, etc.)
 - · Archive of the Outpost SCC Notices directory to reload if necessary
 - x:\TNC Init files
 - Kantronics KPC3.txt
- Kenwood TM-D710A.txt
- Kantronics_KPC3-Plus.txt
 MFJ_1270C-1274C.txt
- Kenwood_TH-D72A.txt
 TAPR_TNC2.txt
- x:\Docs
 - JNOS commands (https://www.scc-ares-races.org/data/packet/jnos.html)

 - (Unofficial) Amateur Packet Radio Field Reference
- x:\Messages & Logs

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What's the plan for 2023?

- Maintenance release planned
 - more Outpost and PackItForm enhancements; reported bug fixes
- Pop-up Packet Exercise
 - March 2023 (tentative)
- Packet class schedule
 - Packet Type IIIA 5-Aug-2023
 - Packet Type IIIB 7-Oct-2023
 - Packet Type II 4-Nov-2023

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Weekly Packet Practice

Steve Roth, KC6RSC Revised 3-Dec-2022

New Weekly Packet Practice Mechanism

- Introduced in August 2022
- Gives feedback within one hour, via return packet message
 - Also available at scc-ares-races.org/pacpractice
- Checks for more problems
 - Messages sent to wrong BBS
 - Messages not following Recommended Routing Cheat Sheet
 - Messages with incorrect "Practice CallSign, Name, City, Net Date"
- Form rotation includes new forms
 - OA Shelter Status
 - Allied Health Facility Status
 - RACES Mutual Aid Request
- Full history and details at scc-ares-races.org/pacpractice

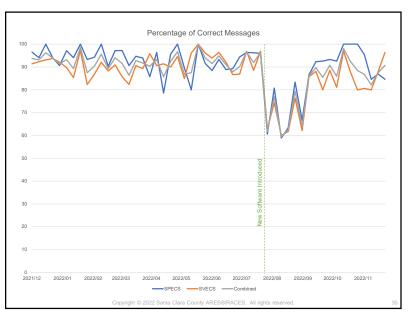
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Implementation

- Entirely new software
 - Source code at github.com/rothskeller/packet
- Written in Go with minimal dependencies
 - Does not use Outpost or PackItForms
- Runs 24x7 on a hosted Linux server
 - Web site scc-ares-races.org/pacpractice always available
- Checks for new messages every hour
 - PKTMON and PKTTUE on all four BBSes
 - Checks more often during the hour before the end of the session
- Communicates with BBSes via TCP/IP with secure login
- Web site authentication delegated to scc-ares-races.org

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60		(Omquo	Call Signs)	1	
40 40 20			New Schulare Introduced		
2021/12 20	12/01 2022/02 2022/03	2022/04 2022/05 ——SPECS ——			2022/10 2022/11

34

Total Messages	2018	2019	2020	0004	
_	0446			2021	2022
0/ 0	2116	2844	3138	3226	3200
% Correct	93.2%	93.7%	95.5%	96.6%	88.4%
Unique Calls	25.5	29	31	30	27.4

Packet NCOs and Voice Net Reporting

Starting this week, packet check-in counts are being looked up and reported by the SPECS and SVECS voice NCOs. We no longer have separate packet NCOs.

Thank you for longstanding, diligent service as packet NCOs:

- Dave Koberstein N9DK
- · Max Lanfranconi W6BG
- Thomas Leibold KK6FPP
- Steve Roth KC6RSC
- Brian Tanner AG6GX

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Overview

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- Starts 3rd Wednesday of each month at 09:00 until the 4th Wednesday at 17:00
 - Participants can proceed at their own pace
- Participants are assigned a tactical call number
 - XX is a range from "01" to "99"
 - Tactical callsign is XND042, message prefix is X42-nnn(P|M|R)
- Scenario varies: check point, post, shelter, clinic, etc.
- Specific assignments of participants to tactical call is private
 - Anonymous participation and recording
- URL download used for simulating being handed a message by your manager
- XSC notices and XND@XSC city notices exercised every month
- Exercise starts for each participant with a successful Check-In
- Exercise ends with sending the ICS-309 via email
- · Xanadu EOC Outpost script is picky about subject lines

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Monthly Packet Message Passing Year End Review

TOUNTA CLIE

Santa Clara County ARES®/RACES/CRU
Last Updated: 01 Dec 2022
Author: Mark Laubach K6FJC

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2022 Global numbers (approximate) as seen from Xanadu EOC Outpost ICS-309 for each event

Month	Packet Stations	Total Messages	Total Message minus Delivered	Avg Message per Station
January	38	1146	575	15.1
February	28	980	520	18.6
March	27	764	394	14.6
April	23	698	369	16.0
May	25	717	387	15.5
June	19	469	247	13.0
August	19	467	251	13.2
September	23	497	258	11.2
October	22	464	236	10.7
November	21	580	322	15.3
	24.5 average	6782 total	3559 total	

ICS 213	EOC 213R R	RAC ES- MAR	Shelt Stat	csv	Plain text ^[1]	Allied Health Facilities Status
83	42	40			94	
116	35			30	72	
62	38			30	46	
23	56			50	24	
45	11			27	46	
43	18			17	16	
18		19	21		15	
20	40	19				20
41				20	29	
67	41	19		19	21	
	83 116 62 23 45 43 18 20 41	R 83 42 1116 35 62 38 23 56 45 11 43 18 18 20 40 41	213 R MAR 83 42 40 116 35 62 38 23 56 45 11 43 18 18 19 20 40 19 41	R MAR Stat 83 42 40 116 35 62 38 23 56 45 11 43 18 18 19 21 20 40 19 41	213 R MAR Stat 83 42 40 116 35 30 62 38 30 23 56 50 45 11 27 43 18 19 21 20 40 19 41 20	R MAR Stat text(-1) 83 42 40 94 116 35 30 72 62 38 30 46 23 56 50 24 45 11 27 46 43 18 17 16 18 19 21 15 20 40 19 41 20 29

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Message Passing Updates Tim Howard, KE6TIM Revised 02-December-2022

Summary

- We are exercising the county BBSs each month
- We are rotating forms used
 - Note: short this year on Jurisdiction Status, Shelter Status, Allied Health
- Participants can sign up stating mode of operation
 - Primary: using their normal packet station
 - Alternate: field set-up different from Primary location
 - Could be kitchen table
 - Manual: run entire practice without using Outpost
 - Required demonstration for the P2 credential
- Monthly Packet Message Practice will continue in 2023
- Monthly practice training page
 - General event information and how-to's
 - Summary of past months: summary presentation and scorecard
- Credential update will require participation (after 6 months)

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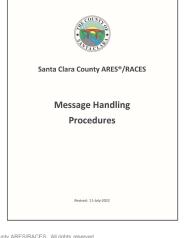
- Updated in Jan. 2022
- Form header section now looks like other forms
- Only two Message Number fields
 - Origin
 - Destination
- · Removed Severity Field
- Reformatted layout

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Message Handling Procedures

Revised July 2022

- Unknown Symbol
- Newline
- Superscript/Subscript
- Figures (clarification)
- Long Addresses Internet, Packet, Email
- Signature Fields



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Unknown character or symbol

Example:

• Written: Send 50 ₹ today

 Spoken: "send FIGURES fife zero <pause> UNKNOWN SYMBOL <pause> today"

The receiver draws an empty box on their message form where the unknown symbol would appear.

Send 50 □ today

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Unknown character or symbol

· You are given this to send.

Send 50 \(\) today

- If you can, get the message author to provide clarification. If you can't, then send the message.
- Inform the receiver that the message has some unknown characters or symbols before starting to send the message.
- When the unknown character/symbol is encountered simply say "unknown symbol" or "unknown character" as appropriate.

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Unknown character or symbol

Example:

- Written: We can use AB§ δ instead
- Spoken: "We can use MIXED GROUP alpha bravo UNKNOWN SYMBOL UNKNOWN SYMBOL <pause> instead"

The Receiver writes: We can use AB□□ instead

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Newline

Example:

Written:

Red wheels Blue bucket

• Spoken: "red wheels NEWLINE blue bucket"

The receiver writes:

Red wheels Blue bucket

SUBSCRIPT and SUPERSCRIPT

Example:

49

51

• Written: White blood cell count is 105

• Spoken: "white blood cell count is FIGURES one zero SUPERSCRIPT fife"

Example:

• Written: Model XS4₆₃

• Spoken: "model MIXED GROUP x-ray sierra four SUBSCRIPT six SUBSCRIPT tree"

SUBSCRIPT and SUPERSCRIPT

- Used to indicate the following character should be written a half-line lower (SUBSCRIPT) or higher (SUPERSCRIPT) than the rest of the text, such as subscripts and mathematical exponents
- Used with one character at a time.
- Does NOT remain in effect until the end of the group (not sticky).

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Figures

· If anything, other than a numeral is present, it becomes a MIXED GROUP, MIXED GROUP FIGURE(S), or MIXED GROUP SYMBOL(S).

 These are figures: 5 123 34564321

• There are NOT figures:

Mixed Group Figures 0 147.525 Mixed Group Symbol 0 -26 o **5,357** Mixed Group Figure o \$61 Mixed Group Symbol o 408 555 1234 Telephone Figures

Long Internet, Packet or Email Address

Ref: Page 27 of "Message Handling Procedures"

- Some long address may be sent in smaller parts
 - o Allows for receiver to ask for fills sooner
 - Allows repeater to reset before it times outs
- Announce to the receiver that the address will be sent in multiple parts. Use the appropriate Proword followed by "in multiple parts". I.E.: "Internet Address in multiple parts".
- The message sender should determine when to break the long address (See page 27 for suggestions)

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Example:

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Written: www.scc-ares-races.org/operations/forms/SCCo-ARES-RACES_MM_Summary_v180705.pdf

Spoken: "INTERNET ADDRESS IN MULTIPLE PARTS <pause> whiskey whiskey DOT sierra charlie charlie dash alpha romeo echo sierra DASH romeo alpha charlie echo sierra DOT oscar romeo golf SLASH LOWERCASE oscar papa echo romeo alpha tango india oscar november sierra SLASH foxtrot oscar romeo mike sierra SLASH <pause> END OF PART <wait for acknowledgement> UPPERCASE sierra charlie charlie LOWERCASE oscar DASH UPPERCASE alpha romeo echo sierra DASH romeo alpha charlie echo sierra UNDERSCORE mike mike UNDERSCORE sierra LOWERCASE uniform mike mike alpha romeo yankee UNDERSCORE victor FIGURES one eight zero seven zero fife DOT papa delta foxtrot <pause> END OF GROUP"

Long Internet, Packet or Email Address

- The UPPERCASE/LOWERCASE prowords are sticky and apply for the entire address (group) including through the multiple parts.
- When sending the end of each part, say "END OF PART" and wait for the receiver's acknowledgement or request for fills.
- At the end of the last part, say "END OF GROUP" and wait for the receiver's acknowledgement or request for fills.

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Forms Containing Signature Fields

- On forms with signatures fields (213RR and RACES Mutual Aid Request) simply voice 'with signature' if a signature is present.
- The sender is not expected to determine what the signature reads. If someone wants to see who signed the form later, the original form will be part of the records that are turned in after the event.
- The message receiver with write "with signature" on the form in the signature field.

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2022 Year End Summary

Recommended Form Routing Sheet

- Have several copies with you.
- Help message authors with Handling Order, To Location, and To ICS Position if they do not know it.

Form Type	Handling		To Location **	To ICS Position **
General EOC				
ICS-213 Message Form	Author defined		Author defined	Author defined
	If "Priority" (Field 11) is:	Then "Handling" is:		
	Now	Immediate (ASAP)		
EOC-213RR Resource Request	High (0-4 hrs)	Immediate (ASAP)	County EOC	Planning Section
7	Medium (5-12 hrs)	Priority (<1 hr)		11.5
	Low (12+ hrs)	Routine (<2 hrs)		
OA Jurisdiction Status	Immediate (ASAP)		County EOC	Situation Analysis Unit Else: Planning Section
OA Shelter Status	Priority (<1 hr)		For city-managed: City EOC For county-managed: County EOC	Mass Care and Shelter Unit Else: Care and Shelter Branch Else: Operations Section

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Any Questions?

•

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Message Passing Is What We Do

- Get it right every time
- It takes experience and knowledge
- Experience come at drills and practice sessions
 - Watch the activity calendar and monthly actively announcement for opportunities
- · Knowledge comes from training
 - o Next Message Passing Class January 28, 2023

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ARRL SET 2022

Countywide Drill 09/17/2022

Andreas Ott, K6OTT Revised 04-Dec-2022

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12/4/2022

ARRL SET points

- Total: 527 (similar to previous years)
- 1 agency (county) and 9 communities (participant's cities)
- All 38 stations on emergency power
- 38 participants, of these 8 "new" licensed since 2018
- 206 formal messages (36+24 on voice nets, 106 on packet)

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Program Updates

- The "Credentialing Program Handbook" was updated 11-November-2022.
- Changes based on clarifications and issues noted since the last update in January 2020.
- · Observations at drills and public service events that were inconsistent with good communication practices.
- · Effective for all future credential activities with some exceptions we will discuss.

Credentialing Program Updates

Tim Howard, KE6TIM Revised 02-December-2022

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Program Updates

- MAC and F3 require participation in an approved drill/exercise not conducted by their own agency/city (6-month temporary exception)
- P3 and P2 require participating in 2 Monthly Packet Practice sessions (6-month temporary exception)
- Type 1 added new knowledge requirements (DSW, SUVs, staffing, inter-county and inter-section traffic flow)

Program Updates

- P2 and P1 requires a USB Flash Drive for archiving messages/logs
- S2 and S1 requires a 2nd HT to monitor a second frequency
- Credential approved activities must use standard county ICS forms (including 205, 211, 213, 214, and 309)

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Credentials and Endorsements Earned QUICK LINKS Saturday, December 10 ALERTS Frequency Lists: County Voice, County Packet, Regional Saturday, December 17 SERVICES Tuesday, December 20 Emergency Management: Op Area EOC, Jurisdiction EOCs, Credentialing, Mutual Aid Wednesday, December 21 Agencies and Community: Allied Health, County Fire, Hospitals, ... Saturday, January 7 Saturday, January 7 8:00 AM Los Altos Fun Run Activation Info, Contact Info, DSW, Forms & Signs, Frequency Lists, Go Kit, Mutual Aid, Nets, Programs (Credentialing Program, Hospital Net), Standards & Procedures, Monthly EC report, More... Saturday, January 28 DATA NETWORKING For Mare Info. & Syn-Up, click here to visit
our Trainina & Evante Sveten
Services: Packet BBS, E-mail, Infraret Access, Internet Access our Training & Events System Access: AX 25 over VHF, AX 25 over IP/UDP, TCP/IP over UHF, TCP/IP over Mesh, TCP/IP over WiFi, TCP/IP over LAN DRILL/EVENT PICTURES Masked Pumpkin Festival Parade, Onli
 10/12/20 (PDF)
 Details: Overview, Documentation, Forms, Records, Training, Support, Management 10/12/20 (PDF)

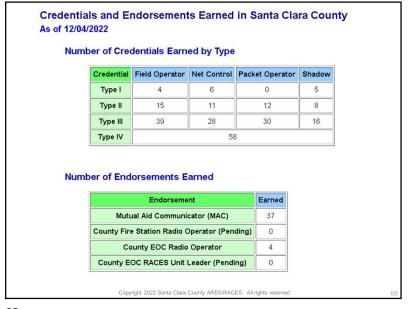
Radio Direction Finding Drill, 10-10-19 TRAINING & EVENTS Advanced Packet Class, 06-06-09 Calendar and Sign-Up If you have training or other events. Copyright 2022 Santa Clara County ARES/RACES All rights reserved

Program Updates

- Equipment checks and Knowledge checks are only good for one year. This has always been the case, but it was never clear in the public documentation.
- · Radio familiarity now requires:
 - Non-standard offset and CTCSS tone
 - Repeater output frequency only on simplex with CTCSS tone

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Moving Forward

- In January of 2020 the old MAC program was changed to the Credential Program and open to all.
- Then COVID hit and things ground to a halt.
- Things are moving again.

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Moving Forward

- EOC Radio Room Endorsement
 - Pilot orientation class conducted in February 2022 with 7 people as a dry run
 - Scheduled for December 17 next week
 - o SCCo EOC Orientation class schedule
- EOC RACES Unit Leader Endorsement
 - o Pilot class at end of 1st quarter 2023
 - Will be open to small group of those holding or nearing completion of EOC Radio Room Operator Endorsement

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Moving Forward

Credentials/Endorsements Earned by Year

2014 to 2019 – Average of 14 per year

2020 - 16 (8 - C4, 4 - MAC)

2021 - 45

2022 - 35

Over 2/3^{rds} of those signed up for today's class have at least one Credential.

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Moving Forward

- County Fire Station Radio Operator Endorsement
 - Requires "Auxiliary Communications Emergency Service (ACES) Fire Station Operations" class.
 - County Fire put this class on hold during COVID until visitors are allowed back into the fire stations.
 - Discussions with County Fire now underway.

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Dispatching Resources

We have these communication jobs to fill

- Packet Operator at a small shelter
- · Communicator for a Hospital
- Net Control Operator and scribe for a busy net

The person in charge has these 7 resources:

Bob Johnson, Sally Wren, Patrick Sommers, Betty Rothberg, Teng Wang, Aadeep Singh, Sal Cruz

Who do they select for each assignment?

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Become a Credentialed Operator

 The credentialing process identifies which operators have the necessary training, equipment, knowledge, experience and operational ability to perform the duties of a particular resource type.

Make it your new years goal
To earn a new Credential in 2023!

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Become a Credentialed Operator

- 1. Resource Typing
 - Available communications capabilities are defined by role and capability levels
 - Requests for amateur radio resources can be clearly made using the resource types
- 2. Qualified Operators
 - Served agencies know that the resource they receive has the needed capabilities
 - Amateur radio operators know what capabilities are expected from them

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Any Questions?

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Training

Judy Halchin, KK6EWQ Revised 30-Nov-2022

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2023

- Sunnyvale Public Safety new classroom (no ID required)
- Sheriff's Auditorium

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2020-2022

- 2020 some classes cancelled, Zoom, Hellyer Park
- 2021 Zoom, SNY Public Safety, Sheriff's Auditorium
- 2022 Sheriff's Auditorium, SNY Fire Station 5, Zoom, SNY Public Safety, CUP City Hall

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2023 Activities

- Annual Drill September 23
- Monthly Message Passing Practice is now the Monthly Training Session
 - Practice taking mike-mike reports
 - Prowords practice
 - Message Passing (January)
 - Let us know what you'd like to see

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Thank You!

Please check your email and follow the instructions to complete and return the Course Evaluation.

If you have questions or feedback about this or other training activities, you can join our Training discussion group. https://scc-ares-races.groups.io/g/training This is a moderated group.

See you at a training class or exercise next year!

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