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Message Passing

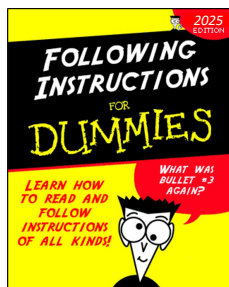


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Revised: 19-January-2025

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Housekeeping

- Introductions
- Pen/pencil & paper
- Cell phones on mute
- Side conversations
- Questions
- Breaks
- Restrooms
- Do not wander within building
- In case of emergency



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Agenda



- Being a Great Message Handler/Shared Procedure
- Practice (prowords, message passing techniques)
- Message Types
 - Operator-to-operator vs. 3rd party (spoken and written)
- Radio Routing Information
- Common Procedures
 - Announcing, Sending, Logging
- Form-specific Exercises
- Relaying Messages
- Problem Solving
- Exercises throughout ...

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Learning Objectives

At the end of the class, you should be able to:

- Properly send, receive, and log 3rd party written messages; including messages using formats that you haven't seen before.

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Fictitious Call Signs

Examples used in training classes make use of fictitious call signs:

- W6XRL4: Herman Munster
 - Character in a 1960 TV show
 - We will treat it like a real FCC call sign, even though it doesn't have the correct format
- XNDEOC: City of Xanadu Emergency Operations Center (EOC)
 - We will treat it like a real tactical call sign
 - XND ECO



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What does it take to be a great Message Handler?

- You need to be a great communicator,
 - com·mu·ni·cate: to transmit information, thought, or feeling so that it is satisfactorily received and understood
- For 3rd party messages, we don't decide what is "satisfactory"
- We need to deliver the message precisely
 - pre·cise·ly: 1. in a precise manner 2. exactly
- How is that possible?
 - Following shared, standard, procedures that EVERYONE is trained to use!

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Shared Procedures

- If everyone uses the same shared procedures things run efficiently and accurately.
- If people use different procedures things are slowed down, we become less efficient, and errors occur.
- We use shared procedures that everyone utilizes every time.

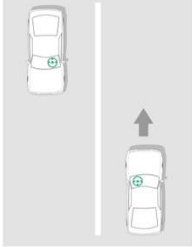
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Which is Correct?

RIGHT-HAND TRAFFIC

- * CARS DRIVE ON **RIGHT** SIDE OF ROAD
- * STEERING WHEEL ON **LEFT** SIDE OF CAR



LEFT-HAND TRAFFIC

- * CARS DRIVE ON **LEFT** SIDE OF ROAD
- * STEERING WHEEL ON **RIGHT** SIDE OF CAR



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HOMEWORK

- Print and read [SCCo ARES/RACES Message Handling Procedures](#) (PDF) [updated 06/28/2024]
- Learn the prowords and techniques. Practice until you know them well. It's not hard but it does take time and must be done before class.
- Carefully review Page 9, Voicing Symbols so are familiar with this before class.
- We will not be teaching what is in that document, just reviewing it during class.
- We will have several practice sessions using material from this document during class.

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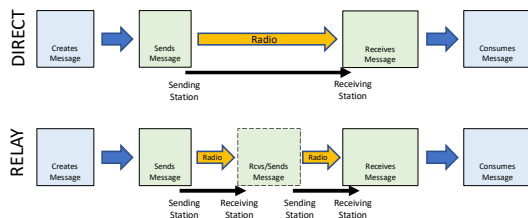
Take every opportunity to practice at Drills, Public Service Events, Weekly Nets, and the Quarterly Training Net.



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Message Handling Roles - Graphical



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Message Types

Operator-to-Operator vs. 3rd Party

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Operator-to-Operator Messages

- Sent by and to other amateur radio operators
 - Message Author is the Origin Station
 - Destination Station is the Message Recipient
- Examples:
 - Check-In/Out, Health & Welfare, Status Updates, Damage Assessments
- Note: The info may be summarized and sent to a 3rd party
 - Crowd counts totaled and sent to event organizer
 - Mike-Mike report summaries delivered to EOC staff.
- But radio operators define their own format and content
- Always use proper prowords, prioritization
- Log all Operator-to-Operator messages on an ICS-309

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3rd Party Messages


- 3rd Party messages are handled by amateur radio operators on behalf of our served agencies
- 3rd Party Message
 - Format is usually some type of form used by that agency
 - Content may include unfamiliar terms
 - To and From is typically an ICS position and location
 - Handling order is how quickly they need it sent
 - Immediate (ASAP), Priority (< 1 hr), Routine (< 2 hr)
- Key: Radio operators must conform to the 3rd party workflow
- Always use proper prowords, prioritization
- Also follow a common set of procedures

The ability to handle 3rd party traffic is a key difference between a Type IV and a Type III Credential.

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3rd Party Written Messages



- 3rd Party written messages **always** use an appropriate form
 - General messages on ICS-213; resource requests on EOC-213RR; etc.
- If the message is not on the appropriate form:
 - Best: Ask the author to use the correct form
 - If they don't have one, provide it to them
 - Else: Transcribe the message to the form, asking the author to clarify as you go
 - Clarify spelling, other details
 - Last Resort: Staple to an appropriate form only if necessary
 - Papers can become detached, separated
 - Staples, paper clips, and odd paper sizes can cause problems when scanning/copying
 - Add Message Number and Form Type on top right of attached paper
- Log all 3rd Party written messages on an ICS-309 Comm Log

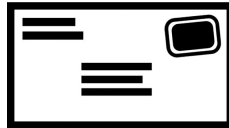
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3rd Party Spoken Messages



- For simple messages, handle as spoken
 - Example: Most messages between shadows are simple, spoken messages
 - "Ask Steven to call Jenny at 867-5309"
- Use your judgement
 - IF message is longer or more complicated
 - Such as: a complicated message that needs to be delivered exactly
 - OR if it needs routing information for delivery outside the radio room
 - Such as: a message to be delivered to an ICS position in an EOC
 - OR if the message should be tracked
 - Such as: the 3rd parties may need to refer to it again
 - THEN write it down on the appropriate form; handle as a written message
- Log all 3rd party spoken messages on an ICS-309 Comm Log
 - (Shadows can log on their ICS-214)

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Radio Routing Information

The "Envelope" for 3rd Party Messages

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Envelope Information



- “Envelope” information is needed for all 3rd party comms
 - Postal carriers: envelope
 - Package carriers: waybill
 - Fax machines: cover sheet
- Information needed
 - Who and where it’s going to
 - Who and where it came from
 - How fast it should be sent
 - Tracking info
- The same is true for messages sent via radio

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Message Numbers

- Generally assigned by the served agency
- Format is XXX-NNN
 - where XXX is the agency code or assigned identifier
 - where NNN is a sequential number
- Examples:
 - XND-123 Xanadu EOC
 - SH5-904 Shelter 5
 - CP2-586 Checkpoint 2
 - MTV-246 Mountain View EOC
- For today’s exercises use your initials and a sequential number, i.e., ABC-100, ABC-101, ABC-102, ...

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Radio Routing Information

- Written messages must have routing information that a radio operator needs to send, deliver, and track a message
 - Message Numbers
 - Date, Time
 - Handling Order
 - To/From
 - Radio Operator Info
- Some forms contain these fields

Example: ICS-213

The image shows a 'MESSAGE FORM' with several fields. Red boxes highlight the following fields: 'To', 'From', 'Date', 'Time', 'Message Number', and 'Radio Operator Info'. The form also includes fields for 'Priority', 'Status', and 'Remarks'. The form is titled 'MESSAGE FORM' and has a header with 'To: _____ From: _____ Date: _____ Time: _____'. Below the header, there are several rows of fields for 'To', 'From', 'Date', 'Time', 'Message Number', and 'Radio Operator Info'. The form is numbered '213' in the top right corner.

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Multi-Recipient Sending Procedure

- Announce quantity and priority of message for ...
 - “All stations, all stations, stand by for one priority message”
 - “All shelters, all shelters, stand by for one routine message”
- [Optional] Poll for readiness of all stations
 - Depends on experience/discipline/professionalism of other operators, previous activity on the net, urgency of message, ...
- Pick a pacing station and confirm with them
 - “<city/agency name>, will you be my pacing station?”
- Send message to pacing station as usual, all other stations copy message
 - Get message number from pacing station
- Poll other stations for their message number
 - “I will now poll all stations for fills and message numbers”
 - Other stations ask for fills (if needed), then provide their message number
- Usually, put stations that missed most/all of the message at the end; don’t make everyone else wait!

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Logging Messages

- Log all communications traffic on ICS-309 Comm Log
- Include
 - Time message was handled
 - 24-hour local time, as usual
 - “From” and “To” call signs and message numbers
 - Optional: leave your call sign slot empty
 - A summary of the message
 - Form Type: Main Topic/Subject (should match Routing Slip if used)

5. COMMUNICATIONS LOG					
Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
1935	XNDGPS	CPS-123	XNDEOC	XND-511	ICS213: Active Flooding

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Logging Multi-Station Messages

Sending Station:

- Use a separate line for each acknowledgment
 - But the multiple lines essentially constitute one long entry
- Either repeat the From message number, use ditto marks, an arrow, or something else to clearly indicate that all entries are part of the same message

5. COMMUNICATIONS LOG					
Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
1310	XNDEOC	XND-100	All Shelters		ICS-213: Report supply levels by 1500
1311			XNDSH1	SH1-123	
1312			XNDSH2	SH2-210	
1313			XNDSH3	SH3-344	

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Logging Multi-recipient Messages

Receiving Station:

- Indicate the “multi-recipient” nature of the message by logging an appropriate “TO” value.
- Referring to the previous example of the “sender” log, here’s what the “Shelter 2” (receiving station) log might look like:

5. COMMUNICATIONS LOG					
Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
1312	NC	XND-100	All Shelters	SH2-210	ICS-213: Report supply levels by 1500

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Form-specific Exercises

Proper prowords and procedures works for any form

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Form-specific Exercises

- You will need
 - 3rd party forms: 3-ICS-213, 1-EOC-213RR, 1-OA Jurisdiction Status, 1-OA Shelter Status, 1-Allied Health Facility Status, Form 1
 - 3-Radio Routing Slips
 - 1-ICS-309 Communications Log
 - 1-Recommended Form Routing Cheat Sheet
- We will discuss the form, then do and exercise with it.
- Exercise Process
 - You will be the receiving station
 - You need to copy the message and log it on an ICS-309 (correctly)
 - Observe common behaviors; look for patterns
 - We will compare results after each message

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Unfamiliar Form – What Do You Do?

1. Define a process that works for you
2. Follow the process

Example: A Donut Ordering form

- How does the recipient know what you're saying is the name of a field, or data you are transmitting?
- Set the expectation: "I will say the word 'Field' followed by the field name, then the word 'Value' followed by the data in the field"
- If a form will be used more than once, assign field numbers and pass the form layout, first: "I will say 'Field' followed by the number, then 'Name' followed by the name."
- Subsequently, use the field numbers: "I'll send the message as 'field', followed by the number, pause, then say the field value"
- Use common procedures: 5 items (fields/groups) at a time, ...

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Example of an unfamiliar form: Donut Ordering Form

Date: 06-25-22
 Time: 1430 hours
 Person Ordering: Herman
 Glazed: 1 dozen
 Jelly: 1 Raspberry
 Plain: 24 mixed
 Bear Claws: de-clawed

What's missing?
Radio routing information!
Use a Radio Routing Slip!

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Example of Form with Numbered Fields

Building Status Report Form Facilities Department Form 20			
1. Facility Name	2. Date	3. Time	
4. Contact Name	5. Phone	6. Fax	
7. Other Phone, Fax, Cell/Phone, Radio			
8. Building Operational Status	Check One	Personnel Status	Total
8. Fully Functional	25. Incomplete	26. No-one	
9. Fully Functional	26. Minor	27. Minor	
10. Fully Functional	27. Major	28. Major	
Damage Assessment		29. IT Equipment	
11. Structural Damage	Yes No	30. Safety Equipment	
12. Power Outages		31. Security Personnel	
13. Total Outages		32. Security Personnel	
14. Loss of Internet Site		33. Backup	
15. Loss of Electrical		34. Backup	
16. Loss of Water and/or Sewer		35. Computer Malware	
17. Loss of Telephone		36. Other	
18. Fire/Smoke Damage		37. Other	
19. Elevator Transportation Needed		38. Other	
Employee & Visitor Status		39. Other	
20. Unavailable	Total	40. Other	
21. Present, not available	41. Other	42. Other	
22. Present, needs assistance	42. Other	43. Other	
23. Other	43. Other	44. Other	
	44. Other	45. Other	
	45. Other	46. Other	
	46. Other	47. Other	
	47. Other	48. Other	
	48. Other	49. Other	
	49. Other	50. Other	
	50. Other	51. Other	
	51. Other	52. Other	
	52. Other	53. Other	
	53. Other	54. Other	
	54. Other	55. Other	
	55. Other	56. Other	
	56. Other	57. Other	
	57. Other	58. Other	
	58. Other	59. Other	
	59. Other	60. Other	
	60. Other	61. Other	
	61. Other	62. Other	
	62. Other	63. Other	
	63. Other	64. Other	
	64. Other	65. Other	
	65. Other	66. Other	
	66. Other	67. Other	
	67. Other	68. Other	
	68. Other	69. Other	
	69. Other	70. Other	
	70. Other	71. Other	
	71. Other	72. Other	
	72. Other	73. Other	
	73. Other	74. Other	
	74. Other	75. Other	
	75. Other	76. Other	
	76. Other	77. Other	
	77. Other	78. Other	
	78. Other	79. Other	
	79. Other	80. Other	
	80. Other	81. Other	
	81. Other	82. Other	
	82. Other	83. Other	
	83. Other	84. Other	
	84. Other	85. Other	
	85. Other	86. Other	
	86. Other	87. Other	
	87. Other	88. Other	
	88. Other	89. Other	
	89. Other	90. Other	
	90. Other	91. Other	
	91. Other	92. Other	
	92. Other	93. Other	
	93. Other	94. Other	
	94. Other	95. Other	
	95. Other	96. Other	
	96. Other	97. Other	
	97. Other	98. Other	
	98. Other	99. Other	
	99. Other	100. Other	

What's missing?
Radio routing information!
Use a Radio Routing Slip!

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Relaying Messages

- We can use one or more “Relay Stations” when the Origin Station is unable to talk to the Destination Station directly
 - Origin station needs to find a path (one or more Relay Stations) to the “To Location” for sending the message
 - Destination station needs to find a path (one or more Relay Stations) to the “From Location” for sending their message number (confirmation)
 - This may be the same path used to send the message
 - It might be a different path (if one or more Relay Stations are now gone)
 - Finding the path may occur on the same or different net
 - Example: Command Net or EOC-EOC radio might be used to keep Message Net moving

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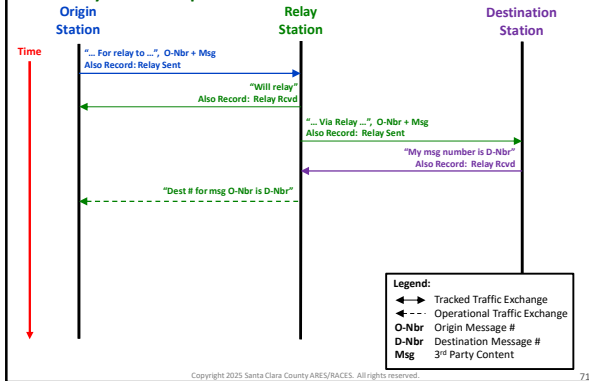
Relaying Messages

- Assumptions:
 - Stations know when a relay is required and arrange a path
 - When the message is being passed, stations know the “next hop” needed to reach the Destination Station
 - When the receipt is being returned, stations know the “next hop” needed to reach the Origin Station
 - The path taken by the receipt may be different than the original message.
 - Return receipt is sent as normal, operator-to-operator traffic with “Routine” handling.
 - Return of the receipt is done on a “best effort” basis.
- Does is sound complicated?
- Think it through, follow our stand procedures with slight modifications to incorporate the relay station.

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Relay – 2 Hops



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Message Relay Exercise

- Xanadu EOC needs to send an ICS-213 message to Shelter 1 using Message # XND-321. The subject is water.
- Fire Station 4 will be used as the relay.
- Shelter 1s next message number is SO1-104.
- For this exercise we will only send the Message Number, Handling Order, and Subject. We will not send the rest of the message content to save time.

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Message Relay Exercise (Cont.)

- The time is 1130
- Xanadu EOC Sends ICS-213 to Shelter 1 via Fire Station 4.

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Message Hop 1 Origin Station To Relay Station

- Indicate relay request during handshake
 - “Message type is Shelter Status for relay to <destination>”
- Transfer message as usual
- Relay acknowledges message with “Will relay”
 - Instead of “My message number is...”
- “Radio Operator Only” section:
 - Origin Station records Relay Station’s call sign in “Relay: Sent”
 - Relay Station records Origin Station’s call sign in “Relay: Rcvd”
 - Remainder completed as normal

Radio Operator Only:		
Relay:	Rcvd:	Sent:

- Both stations log the traffic on their ICS-309

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Relay Exercise: Receipt Hop 1

Relay

Form: Radio Operator Only: 1 Origin Msg #: *XND-321* Destination Msg #: *S01-104*

Radio Operator Only:

Relay: Rcvd: *EOC* Sent: *Shelter 1*

ICS-309:

Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
1130	EOC	XND-321	Fire 4	S01-104	ICS-213: Water / Relay from EOC
1135	Fire 4	XND-321	Shelter 1	S01-104	ICS-213: Water / Relay to Shelter 1
1138	Fire 4		EOC		Origin # XND-321 = Dest # S01-104

Origin

Form: Radio Operator Only: 1 Origin Msg #: *XND-321* Destination Msg #: *S01-204*

Radio Operator Only:

Relay: Rcvd: Sent: *Fire 4*

ICS-309:

Time (24:00)	FROM		TO		Message
	Call Sign/ID	Msg #	Call Sign/ID	Msg #	
1130	EOC	XND-321	Fire 4	S01-104	ICS-213: Water / Relay to Shelter 1
1138	Fire 4		EOC		Orig # XND-321 = Dest # S01-104

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More Complex Relay Situations

- Time Lag
 - It may be 30 minutes to an hour before you get the destination message number back; longer with two relays
- Two relays
 - The same procedure is easily extended to more than one relay
 - This would be extremely rare in our county, much less for a city
 - See Appendix at the end for a diagram
- Different path for return of Destination Message Nbr
 - By the time the Destination Message Number is on its way back to the Origin Station, one or more of the relays may be gone
 - So the "receipt" may take a different path back
 - See Appendix at the end for a diagram

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Problem Solving

How to handle the problems that will inevitably happen

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Proword Is Part of the Message

- What if a proword like “figures” is part of the message?
- Answer: Use “I spell”
- Examples:
 - Written: “The latest figures are encouraging.”
 - Spoken: “The latest figures / SPELL foxtrot india golf uniform romeo echo sierra <pause> are encouraging.”

 - Written: “Itemize 4 figures each.”
 - Spoken: “Itemize FIGURE four <pause> figures / SPELL foxtrot india golf uniform romeo echo sierra <pause> each.”
- In these example, when “figures” is spoken, it is either an introductory proword or a real word. Since it is followed by “I SPELL”, rather than digits, we know it is a real word.

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Message Is Too Long for the Form

- When you run out of room on the form when receiving a message:
 - Make it *abundantly* clear on page 1 that there is more than one page (“Page 1 of X”)
 - Use plain paper (Form 1) for subsequent page(s)
 - Add Origin Message Number and “Page X of Y” to each page
 - Use only front of paper
 - Copying and/or scanning often misses the back of pages
 - Immediately staple or otherwise affix all pages together

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Untrained Operator; Known Form

- What if an Operator is sending a known form poorly?
 - Suggest a process
 - “Send fields top to bottom, left to right, 5 fields at a time. For long fields, send 5 words at a time”
 - If that doesn’t work, switch to a more directive approach
 - Ask for individual fields: Origin Message Number?, Date?, Time?, Handling? ...
- If the problem continues with the next message, it might be time to suggest another operator through discreet channels such as Command Net, Telephone, etc.

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Untrained Operator; Unknown Form

- If an Operator is sending a message poorly (using an unfamiliar form you haven't seen) – what do you do?
 - Suggest a process:
 - “First, tell me each of the field numbers and field names on the form, top to bottom, left to right. Pause after each one (or five) and wait for an acknowledgment by me.”
 - Now, tell me the field number (or name) followed by the value.

Use MP Techniques with Net Scripts

- Use with caution on Net Scripts (Open/Close Net, H&W, etc)
 - Prowords are helpful when sending 3rd Party messages that might be misunderstood; but, do not overuse them when reading net scripts.

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Unusual Information to Communicate

- Just about anything can be sent with our existing rules
 - Avoid making up new prowords
- Still, you may come across something that isn't covered yet
 - That's why we added to the ARRL message handling procedures
- If you're really sure that you must create a new proword
 - Use the existing prowords as a guide for how it should work
 - Set the expectation for the receiving station up front
 - “I will use the introductory proword WIDGET” before speaking a group of type widget phonetically
 - Use it consistently
 - Report it on our discussion groups
 - If appropriate, we'll adopt it into our standards

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Whatever the Problem, Remember ...

Semper Gumby

(In case you don't know Latin, that means "Always Flexible")



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Summary

You should now be able to:

- Properly send, receive and log 3rd party written messages, including messages using formats that you haven't seen before
- And you should be able to do it precisely!

This was the classroom portion of your training
Practice is the only way to become and remain proficient!

- Quarterly On-air training nets
- Exercises, drills, and public service events
- Repeat this class until it's automatic

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Final Assignment

Please complete the Class Evaluation within one week.

To get course credit you need to:

- a) Attend at least 90% of the class
- b) Participate in class
- b) Complete the class evaluation

If you do these, you will get credit for the course.

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Online Class Evaluation

Log into <https://www.scc-ares-races.org/activities/events.php>
Click "Submit Class Evaluation" in Events



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Thank You!

- If you have questions or feedback about this or other training activities, join our Training discussion group. This is a moderated group:
 - <https://www.scc-ares-races.org/discuss-groups>

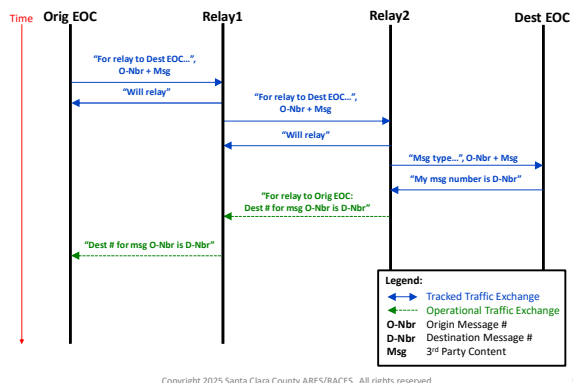
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Appendix

Example, Relaying with 2 relay hops

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Relay – 3 Hops



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Message Passing - Tabletop

