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1





Packet Type II



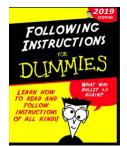
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2

HOUSEKEEPING

- Introductions
- Pen/pencil & paper
- Cell phones
- Side conversations
- Questions
- Corrected Handouts
- Breaks
- Restrooms (code: 9033)
- In case of emergency
- No wandering or exploring other areas of the building.



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Overview: Packet Classes

Packet Type III, Part A

- Role of the Packet Operator
- Packet Network Overview
- Packet Network Components
- · Packet Station HW & SW · Accessing the Network
- Standard Workflow

Packet Type III, Part A+

• Packet Operations Self-Paced

Packet Type III, Part B

- Packet Operations
- Diagnosing Setup Problems
- Selecting a BBS
- · Creating Messages
- Event Documentation
- · Productivity Hints
- Exercises

Exercise workbook

Packet Type II: Advanced Techniques, such as County EOC Packet Station Setup & Operations, Operating without Outpost.

Learning Objectives

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

- Understand the setup and operation of the county EOC radio room packet station
- · Set up and use a terminal program to access a BBS
- Without Outpost...
 - Connect to a JNOS BBS
 - Send and receive plain text messages with BBS commands
 - Send and receive PackItForms with BBS commands

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A Note on receiving Class Credit

To get credit for this class, there are 3 things that you need to do:

- 1. Attend the classroom session.
- 2. Complete the evaluation by the Saturday, one week after the class. See the instructions at the end of this material.
- 3. Complete the exercise by the Saturday, one week after the class.

Fictitious Examples

- We use fictitious call signs in this presentation to avoid SPAM
- W6XRL4: Herman Munster



 XNDEOC: City of Xanadu Emergency Operations Center



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What about Xanadu?



- Xanadu received lasting fame in the western world thanks to the Venetian explorer Marco Polo's description of it in his celebrated book *Travels* (c. 1298).
- Distant and mysteriously lost Xanadu, thus, came to represent a place of mystery, splendid luxury and easy living.
- Fortunately, you get to visit Xanadu only during Packet classes and

 Packet eversions
- Only use an XNDxxx tactical call that has been specifically assigned to you for an exercise or training event and then only for the duration of that event, including any homework follow-up.
- PLEASE NEVER USE XNDxxx tactical calls during any other time.
 Instead, use one of your City's extra tactical calls for practice (with your EC's permission, of course).

8



How to process high volume traffic efficiently

COUNTY EOC PACKET STATION SETUP & OPERATIONS

Packet Net Operations at County EOC

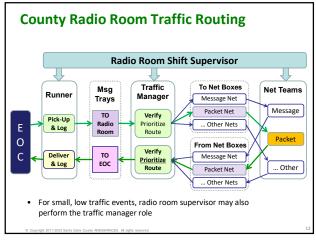
- County message handling can be non-stop action
- Have separate send & receive stations
- Learn to use the automation
 - Automated polling every 5 minutes by Telnet
 - Automated ICS 309 Logging
- · Watch message handling order
- Move the messages to the Traffic Manager as quickly as possible
- Balance outgoing and incoming traffic
- Follow the SCCo Radio Room packet procedures

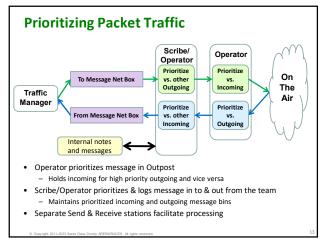
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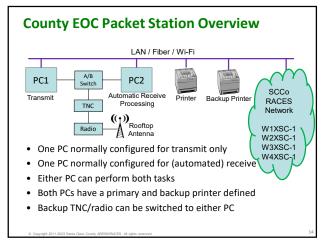
10

SCCo Packet Net Reference Binder DO NOT REMOVE REPLACE WHEN FINISHED What's inside **COUNTY OF SANTA** • There is a "standardized" binder CLARA for every position in the SCC EOC, including each position in the RACES radio room. **RACES UNIT** The Packet Net binder contains the material from the previous PACKET NET binder, with updates in progress. • General content includes: activation and operation - end-of-shift and demobilization - Packet-specific activities

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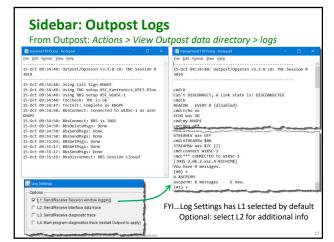
14



Its all about control with Text Commands

- · Simple text commands control the TNC
 - MYCALL callsign = set the TNC's Mycall command to your callsign
 - CD software = set Carrier Detect mode to software
 - C callsign = Connect to station callsign (ax.25 address)
- Simple text commands control the BBS mailbox
- SP address = Send a Private message to an address
- LA = List All messages in this area (mailbox)
- R n = Read message number n
- Outpost simply automates the process of typing the commands to the TNC (to connect) and then to the BBS (to send/receive messages)
 - Watch the Outpost session window to see what it's doing
 - View the Outpost transaction log later to see what it did
 - Actions > View Outpost Data Directories > logs > transaction YYMMDD.log

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Everything Can Be Done Manually

- Why would I want to/need to?
 - Outpost is not installed or installed incorrectly; no administrative access to PC
 - Browse the BBS to read bulletins
 - Gain deeper understanding of how packet radio works
 - Perform clean up or diagnostic activities on your setup or to maintain the BBS
- All you need is a terminal emulator program
 - Suggested: PuTTY (free download) https://www.putty.org/
 - ... or just do an Internet search for "PuTTY"
- But any terminal emulator will do ...
 The following examples will use PuTTY
- Select and copy: highlight/select (not <ctrl>C)
 - Paste: Right-click (not <ctrl>V)

Summary of Steps to be Discussed

- What you need to know to operate without Outpost
- Setting up PuTTY for BBS access (serial)
- · The connection basics
 - Start of shift: Configure optimized TNC settings
 - Per session: Using you FCC call sign, -OR-
 - Per session: Using a tactical call sign (plus your FCC call sign)
 - End of shift: Restore default TNC settings
- Managing Messages on JNOS
 - Access user and bulletin areas (mailboxes)
 - Read a message
 - Send a message
- · Reading notices and bulletins on JNOS
- Working with PackItForms

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What you need to know

Operations without Outpost

- 1. Connect Parameters
- 2. TNC Standard Settings and Manual Workflow
- 3. TNC User Commands
- 4. TNC Init Settings
- 5. BBS User Commands
- 6. BBS Init Settings

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1. Three Connect Parameters

 $Operations\ without\ Outpost...\ \mathit{need}\ \mathsf{to}\ \mathit{know}$

• Call Sign or Tactical Call of the user

example : W6XRL4 XNDEOC

• TNC Comm Port Settings

example : COM3,9600,8,N,1 COM5,9600,7,E,1

• BBS Connect Name

example : W1XSC-1 W3XSC-1

2. TNC Standard Settings

Operations without Outpost ... need to know

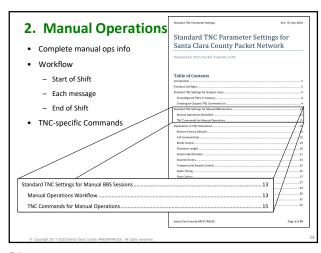
- SCCO RACES determined the optimum TNC parameters for our BBS system that significantly improves message traffic throughput.
- Document contains parameters for both Outpost and Manual sessions. Details of each parameter are explained.
- See: https://www.scc-ares-races.org/data/packet/index.html → Application Notes → Standard TNC Parameter Settings
 - \dots and specifically the section titled: $\textit{Standard TNC Settings}\ \textit{for Manual BBS Sessions}$

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2. TNC Standard Settings Operations without Outpost ... need to know Sate Clare County ARS*(**PACES*) Interest Senses County ARS*(**PACES*) Packet BBS Service Outpoor I Senses Senses (Senses I Agree I Agree I Agree I Man | Support Packet BBS Service Notices - 1998 of 2. - General Interest I Agree I Agree I Man | Support Packet BBS Service Notices - 1998 of 2. - General Interest I Man | Support Packet BBS Service Notices - 1998 of 2. - General Interest I Man | Support Packet BBS Service Interest I Man | Support Packet BBS Service Interest Interest I Man | Support Overview In the Sense County ARS*(**SACES*) Andreas promise a resoluted animator ratio peak BBS definition from a rate animator in the peak BBS definition from a rate animator in the sense in the sense

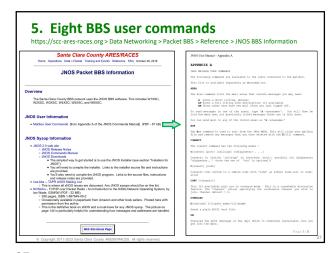
23



	Eight TNC user commands perations without Outpost (Kantronics KPC-3+)	
	HELP [command] When entered alone, lists all available commands. With a command, provides details on that specific command.	
2.	MYCALL XXXXXX Tells the TNC what its' call sign is.	
3.	CONNECT call 1 [via call 2, call 3,] Call 1 - Call sign of the station to be connected to. Adding "via call 2" connects to the BBS by digipeaters.	
4.	CONVERS Puts the TNC into Conversational mode. Then, whatever you type is immediately transmitted.	
5.		
6.	RESTORE DEFAULT Resets the TNC to the factory default settings; performs the AUTOBAUD routine. Defaults INTface to NEWUSER. Hard reset can be triggered by temporarily removing the battery.	
7.	INTRACE [TERM] When set to TERMinal, the full command set of the TNC is available.	
8.	XMITLVL [value] Displays or sets the TNC's transmit drive level	
0 0	Copyright 2011-2023 Santa Clara County ARESRIPACES. All rights reserved.	25

4. TNC Init Settings Operations without Outpost ... need to know 9. Go to the "Standard TNC Settings for Manual BBS Sessions" 1. Follow instructions in "Manual Operations Workflow" 1. Use the "TNC Commands for Manual Operations" appropriate for your particular TNC TNC Type | Manual Ops: Start of Shift | Manual Ops: End of Shift | Monution Ops: End of Shif

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5. Eight BBS user commands

Operations without Outpost ... need to know

1. HELP [command] or?

When entered alone, generates a summary of available commands. With a command as a parameter, provides details on that command.

H List = shows all the List command options and what they do

2. LIST = by itself will display the headers for all *unread* messages, if any.

LA = List ALL messages, both read and unread

LM = Lists MY messages addressed to me
L> addr = Lists all messages that have "addr" in the To: field of the message

3. <u>R</u>EAD #

= The message number to be displayed.

4. <u>K</u>ILL #

= The message number to be deleted.

AREA [Area_name]

A = Lists all available bulletin areas

AF = Gives a full listing with descriptions of areas.
A area_name = moves you to that area. Then use the List and Read commands to view messages.

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5. Eight BBS user commands

Operations without Outpost ... need to know

6. **SEND** [option] <dest_address>

example: SP w6xrl4@w5xsc.ampr.org example: SB xsctest S[P] = Send Private; SB = Send Bulletin;

SC = Send Copy; to multiple destination addresses

example: SC w6xrl4@w5xsc.ampr.org (BBS then prompts with Cc: for all other addresses)

Disconnects from the BBS

displays or sets the page length for viewing messages

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6. BBS Init Settings; Page Length

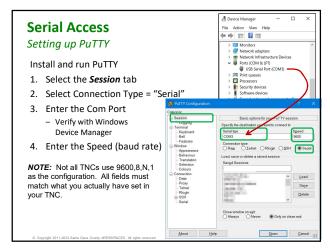
Operations without Outpost ... need to know

- The BBS "XM" command displays or sets the page length
 - XM = displays the current page length setting
 - XM 24 = sets the page length to 24 lines
 - XM 0 = turns off pagination (required when using Outpost)
- If a page length is set, message listings, messages and other content longer than the page length are paused and a "More (N=no)?" prompt is shown.
 - Press <ENTER> to see the next page; 'n' to stop
 - Good for reading content on the screen
 - Will cause Outpost to hang if not set back to XM 0
- Note: The SCCo Packet Installer includes XM 0 in the BBS Init Commands for all SCCo BBSs. Outpost will send XM 0 as soon as it connects to the BBS so message output is never paused.

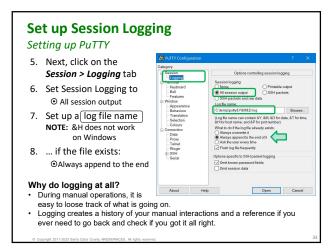
SETTING UP PUTTY FOR BBS ACCESS

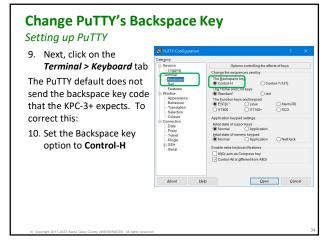
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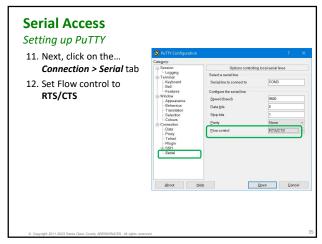
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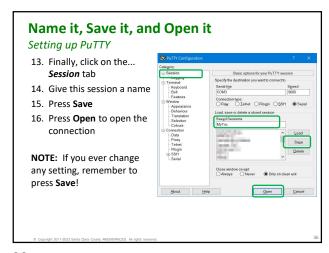
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THE CONNECTION BASICS

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Start of Shift: Configure TNC settings

The connection basics

- TNC settings affect overall performance
 - Start with the factory defaults
 - Make other settings for efficient use of the BBS
- To be absolutely positively certain that all TNC settings are at the current SCCo standard values, at the TNC prompt, perform the following:
 - 1. cmd: XMITLVL (for KPC-3+) to display the existing transmit level <value> 2. cmd: INT Term (just in case)
 3. cmd: restore default

 - PRESS (*) TO SET BAUD RATE
 Enter your call sign
 - 6. cmd: INT Term
 - 7. cmd: XMITLVL <value>
 - cmd: cd software
 - Apply SCCo standard TNC settings for <u>manual</u> operations

PRESS (*) TO SET BAUD MATE:

VEX.NORMEMORY.

PRESS (*) TO SET BAUD MATE:

HITER YOUR CALLSIGN-> WG-14

AGAINT WG-14

AG

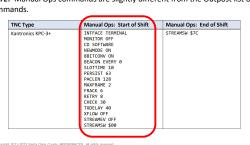
38

Start of Shift: Configure TNC settings

The connection basics

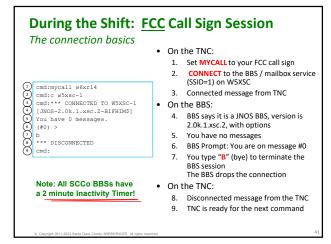
- Outpost configures the TNC at the start of each Send/Receive session
- For manual operation, you only need to send these commands once, at the start of your shift

NOTE: Manual Ops commands are slightly different from the Outpost list of commands.

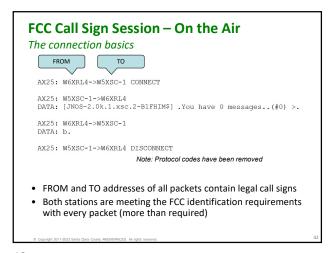


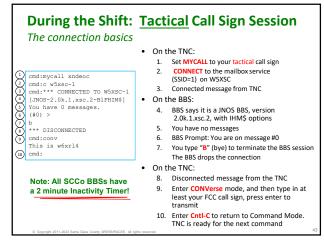
Start of Shift: Configure TNC settings The connection basics Create and save a text file with the "Start File Edit Format View Help --- KPC-3+ Start of Shift --of Shift" and "End of Shift" TNC commands. CAUTION: Do NOT cut-and-paste directly from the PDF into your terminal emulator; it doesn't always work. **Best practice: copy the commands first into a text editor (Notepad), save it, and then copy-and-paste from there into your terminal program. • To send the "Start of Shift" TNC KPC-3+ End of Shift --commands, Connect to the TNC with PuTTY STREAMSW \$7C Select and copy the entire "Start of Shift" command list from the text file - Paste it into Putty (right-click) at the TNC cmd: prompt.

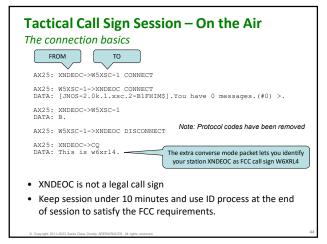
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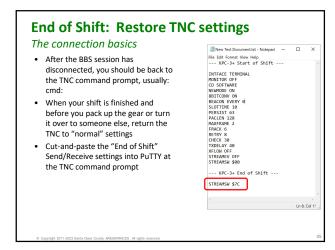
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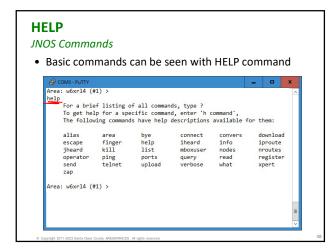


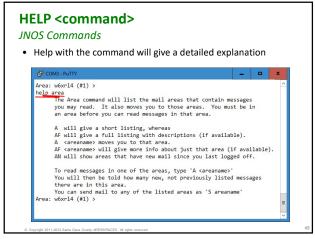
MANAGING MESSAGES WITH JNOS COMMANDS

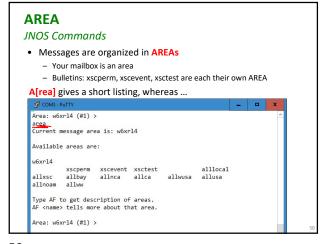
46

Ready to connect to BBS Set your call (FCC or tactical) in the TNC for login cmd: MYCALL W6XRL4 or cmd: MYCALL XNDEOC Connect cmd: C W5XSC-1 JNOS gets login info from MYCALL No login prompt needed No login prompt needed Ready to connect to BBS Comd: MYCALL XNDEOC Cmd: cmd: mycall w6xrl4 cmd: mycall w6xrl4 cmd: cmd: cmd: mycall w6xrl4

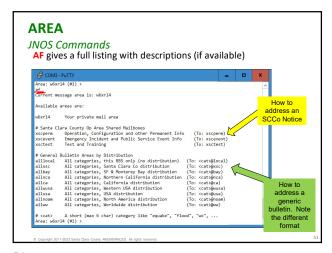
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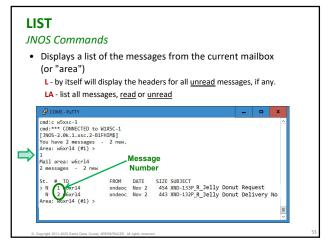




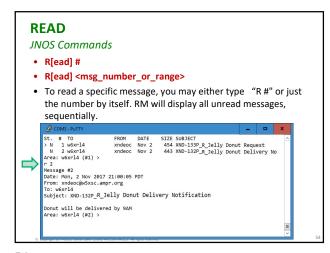
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AREA Example JNOS Commands	
 Change areas to read SCCo bulletins "area xsctest" – changes to the "xsctest" area "L" or "LA" – lists or lists all bulletins in that area "area <callsign>" – returns you to your own area</callsign> 	
COMB-PUTTY cmd:c utxxsc-1 cmd:** COMBCCFED to NIXSC-1 cmd:*** COMBCCFED to NIXSC-1 cmd:*** COMBCCFED to NIXSC-1 cmd:*** COMBCCFED to NIXSC-1 cmd:** COMBCCFED to NIXSC-1	
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KILL

JNOS Commands

• The KILL command allows you to delete messages from your mailbox

K[ill] <message_number>

- At least one message number must be supplied. The message numbers you can select from can be displayed with the "L[ist]" command.
- Messages will not disappear until you disconnect and connect

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SEND

JNOS Commands

• The send (S) or send private (SP) command allows you to enter a message and send it to a user

S[P] <user>@<domain> where <user> = recipient's name <domain> = <bbscall> <bs/>bbscall>.ampr.org internet domain

• Send an SCCo specific Notice

SB < NoticeArea | <category>@<distribution>>

- SCCo Notices: SB < NoticeArea >
- General purpose bulletins: SB <category>@<distribution>
- As above, but ANY <user> may read the message from the mailbox. The < NoticeArea > may be...
 - xscperm xscevent

 - xsctest

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Send a Message from the Keyboard

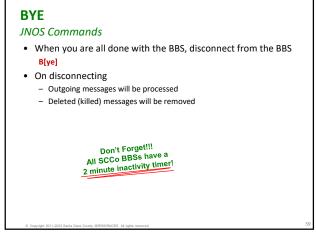
JNOS Commands

- Connect to the BBS using a terminal program
- Use these BBS commands
 - SP <user>@<domain> Send a message to a user at a specific domain.
 - When prompted, enter an SCCo standard subject

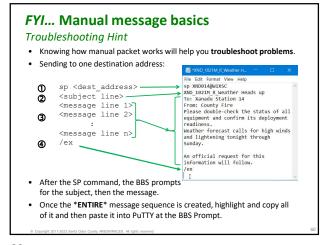
	_ = ×
(#1) > Sm World@hGxsc Subject: Swbject: 100%-459 F. N*aparound Test Enter Message. End with FEX or ^Z in first column (^A aborts): This is a mraparound test. (ex	1.SP <dest_addr> 2.The subject 3.The message 4. /ex</dest_addr>

Send Copy JNOS Commands • The send copy command allows you to enter a message and send it to multiple users SC <user>@<domain> • Enter the send copy command with one address • JNOS responds with "Cc:" - Enter other addresses to receive a copy, separated with commas | Company | Command |

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	wing how manual packet works will help you troubleshoot problems . ding to multiple addresses:	
0 2 3	sc <dest_address> <pre> sc <dest_address> </dest_address></pre></dest_address>	^
	er the SC command (Send Copy), BBS prompts with a CC: for additional destination addresses.	V

FYI... Manual message basics

Saving the message

- There are reasons to save the message before sending it
 - You have copy for your records.
 - You can save all your messages before sending them.
 - $\bullet \hspace{0.4cm}$ Avoids having to re-enter the message if something goes wrong.
- Where you save the message is up to you. But:
 - $\bullet\ \ \,$ If this is your PC, then save them anywhere where you can find them.
 - If this is a shared PC, then create a directory on the C: Drive.
- For instance: your directory structure could look like this:
 - C:\MyMessages
 - C:\MyMessages\XND-23-1009T (activation number)
- Use the message subject as the name of the file.

 $\textit{BUT}... \ \textit{Manual PackItForms will do a lot of this for you!}$

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READING BULLETINS ON JNOS

Bulletin Review

Bulletins

- Bulletins are messages intended for a broad audience
- The SCCo BBSs support two types of bulletins:
- Notices are a special type of bulletin specific to Santa Clara County
 - Only distributed to SCCo BBSs (W*XSC)
 - SCCo uses 3 special categories for specific content
 - General Bulletins are globally compatible, used for everything else
 - User-defined category (e.g.: "equake", "ARES") identifies content
 - User-defined distribution controls how widely it is distributed (e.g.: "XSC", "BAY", "NCA", etc.).
- Regardless of the bulletin type, when configured in Outpost, Outpost will automatically download them

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SCCo Notice Areas



SCCo RACES Bulletin Board System

Bulletins

- SCCo ARES/RACES has three special *notice* categories:
 - xscperm
 - Used for notices that do not expire
 - examples: standard county procedures
 - xscevent
 - Notices posted here automatically expire after 8 days
 - examples: Drills, public service events, incidents, other activations
 - xsctest
 - Good for user testing; automatically expires after 1 day
 - allxsc
 - Where you can write city and jurisdiction notes
 - Notices posted here automatically expire after 8 days

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General Bulletins Overview

Bulletins

- $\bullet \;\;$ 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

General Bulletins - Why Do They Matter?

Bulleting

- 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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General Bulletin Addresses

Bulletins

- 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 No. 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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General Bulletin Addresses (continued)

Bulletins

- 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
 - mtv, cup, sjc, etc. City bulletins
 - 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

Country Mark 1999 Court Clare Country INCOMEDIATES At Additional Country Income

General Bulletin Addresses (continued)

Bulletins

- Example bulletin addresses:
 - mtv@xsc
 - City of Mountain View information for distribution to all BBSs in Santa Clara County
 - flood@bay
 - Information about flooding 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

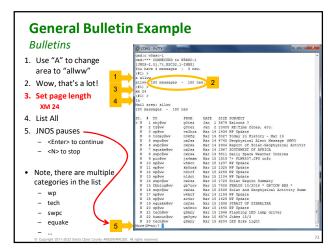
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Reading General Bulletins

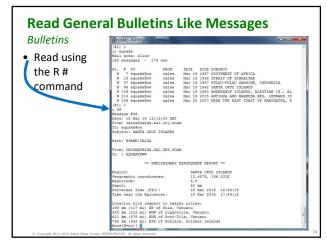
Bulletins

- Use a terminal program like PuTTY
 - Read only the bulletins of interest
 - Be selective when listing and reading
- Read bulletins just like mail
- Find out what areas are available ARFA
- Select a bulletin area
- AREA <area_name>
- List bulletins
 - L> <category_name>
 - (where category_name matches the messages' To: field, ex: equake@ww)
- Read a bulletin

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Bulletins		
– Example: L	and L> will filter the list by To: address > category nly bulletins where the To: address contains category	
COM1 - PuTTY (#1) > 1> equake Mail area: allww	all earthquake bulletins	
180 messages - 1	179 new FROM DATE SIZE SUBJECT cx25s Msr 14 1967 SOUTHREST OF AFRICA	



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Submitted for your approval...

- PACKET • You just arrived at XND Fire Station 14 to take over as Packet Operator. This is great... Your first MAC assignment!
- As you enter, the last shift Packet Op rushes past you saying... "there's a couple of ICS 213's on the desk to be sent!"
- At least you won't be bored.
- Over your shoulder, you hear him yell back... "Oh yeah, I could never get Outpost to work after IT updated the Windows O/S... and they just left."
- The PC is running; you click the Outpost icon... Error; and you have never seen this error before $\ensuremath{\mathfrak{S}}$
- OK, deep breaths. You know what to do, right?

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Manual PackItForms

Fortunately, PackItForms is a message creation system designed to work with both Outpost or as a standalone solution for formsbased messages.

- What's new with the PackItForms 3.10
 - Enhanced standalone message management, including:
 - Manages setting up and using user and tactical IDs
 - Takes care of message numbering
 - Includes a Plain Text message form
 - Creates a standalone ICS-309 log
 - Creates copy-ready text (all BBS commands) to paste into PuTTY
 - Easy message saving
- What's the same
- Tight integration with Outpost
- Supports all PackItForms
- Formats a standard packet form for sending
- Processes a received packet form

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Get ready for Manual PackItForms

Things to do before you get started:

- 1. Create a directory where you will save your messages.
- 2. Consider a naming convention that is relevant for your assignment, examples:

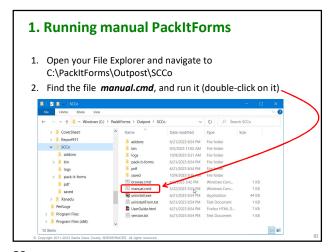
C:\MyMessages\X14-23-1009T C:\PacketMessages\2023-10-09 C:\Xanadu Station 14

(by Activation Number) (by date) (by assignment)

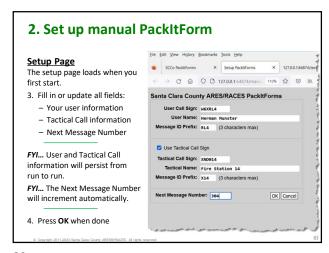
- 3. Identify a starting message number
 - Can be any number; PackItForm will append a M for Manual to make it unique.

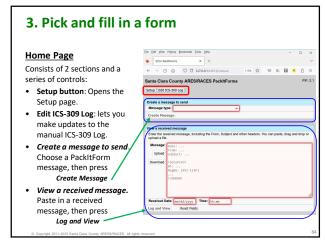


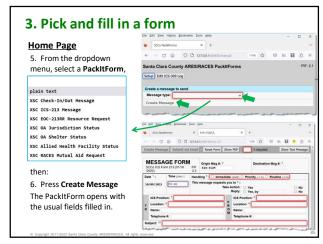
Manual PackItForm messages		
Ma	nually create a PackitForm message	
1.	Run PackItForms with the manual.cmd	
2.	Set up your user ID, tactical ID, and Next message number	
3.	Pick and fill in a PackItForm	
4.	Create the packet message	
5.	Send the message with PuTTY	
6.	Save a copy of the message	
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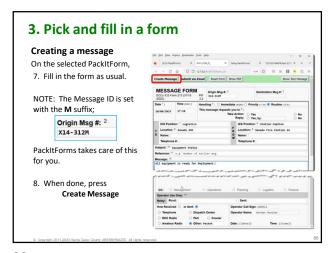
82

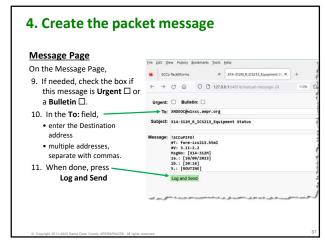


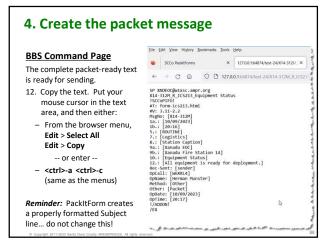




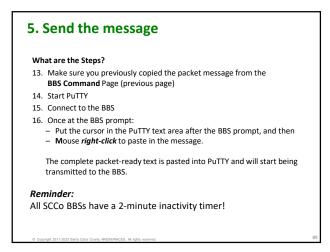
85

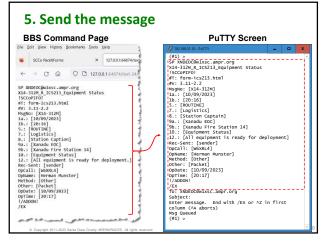






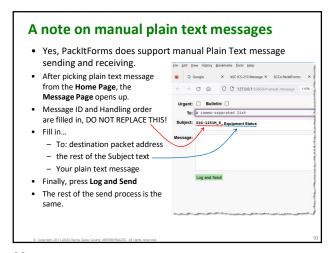
88



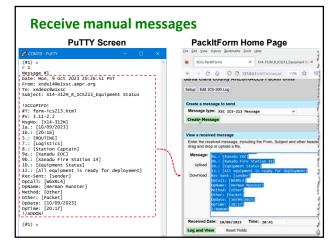




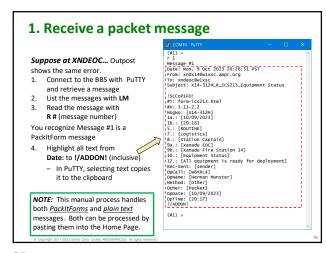
91



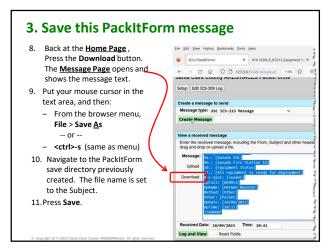
Re	ceiving messages
1.	Read messages from the BBS using PuTTY
2.	Save the message
3.	Once you have the message saved, delete the message off of the BBS (use the Kill # command)
	te: All SCCo BBSs have a ninute inactivity timer!



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	Elle Edit View History Bookmarks Tools Help
ome Page	SCCo PackItForms X X14-312M_R_ICS213_Equipment St. X
ack at the Browser, get back to the CCo PackItForms tab	← → ♂ △ ○ ○ 127.0.0.154674/menual 1100 ☆ つ つ つ つ つ つ つ つ つ つ つ つ つ つ つ つ つ つ
Put your cursor in the "View a	Create a message to send Message type: xsc rcs-213 Message
received message" section, and enter <ctrl>V or Edit > Paste to paste in the received message.</ctrl>	Creaty Message View a received message Enter the received message, including the From, Subject and other heading and drop or upload a file. Message: "The received message including the From Subject and other heading and drop or upload a file."
Press Log and View. This entry is logged to the ICS 309 The received PackItForm is opened in its PackItForm.	Westage Max. Zamada LCC Upload Dec. Zamada Erres Station 18 Upload Dec. Zamada Erres Station 18 Download Dec. Zamada Erres Station 18 Dec. Zamada Erres Station 1
Once the PackItForm is opened, print and hand it off for delivery.	OpOate: [10/09/2023] OpTime: [20:17] [/ADDON]



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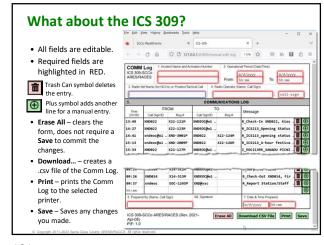
Sidebar: A Note on Outpost tags

- Messages sent from Outpost occasionally have "tags" inserted in messages that you might see.
- Some of the more common tags are:
 - !RRR! Request Read Receipt
 - !RDR! Request Delivery Receipt
 - !SCCoPIFO! This is a PackItForm message
 - $\,-\,$!/ADDON! The end of a PackItForm or other Addon message
 - $-\ \ !UG!$ Mark message as urgent (lists as RED in the Outpost listing)
- PackItForms will ignore many Outpost tags that it sees and they will not show up in the message.

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Manual PackItForms comes with its own ICS 309 Log, similar to what Outpost does. From the PackItForm Home Page, when you click on you write a new ICS 309 Log entry for this message. From the PackItForm Home Page, when you click on you open the ICS 309 form for editing and printing. Edit ICS-309 Log,

100



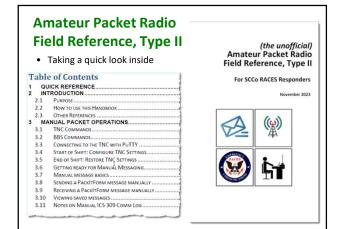
Manual packet operations; not many changes

This is a tool change, not a process change

- 1. First Shift...

 - a. Show up, request a safety and assignment briefingb. Find a workspace for your packet operations
- 2. Initial station setup...
 - a. Find, assess, and set up the packet station
 - b. equipment check-out
- 3. Packet Operations...
 - a. Download notices, send yourself a test message
 - b. Send the formatted check-in message with your Tac Call
 - c. Manage the message flow
- 4. Incoming Shift Change...
 - a. Request a safety and assignment briefing
- 5. Outgoing Shift Change..
 - a. Archive the event documentation
- Securing Operations...
 - a. Send the formatted check-out message with your Tac Call
 - b. Archive the event documentation
 - c. Shutdown

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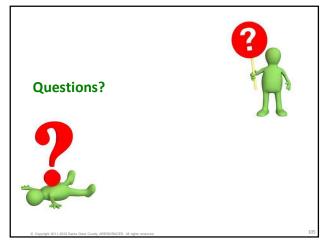
Could manual packet ops really happen to me?

- Better to be safe than sorry... Build your USB packet thumb-drive now!
- Directories (suggested)
- x:\Programs
 putty installer (https://www.putty.org/
 Putty standalone executables (https://www.putty.org/
 Putty standalone executables (https://www.putty.org/
 Alternative binary files)
 SCCO Packet Installer https://www.scc-ares-races.org/data/packet/client-software.html
 SCCO Packet Installer https://www.libreoffice.org/download/portable-versions/
 Office Libre Portable version (https://www.libreoffice.org/download/portable-versions/
 Alternative binary files
 SCCO Packet Installer https://www.libreoffice.org/download/portable-versions/
 Alternative binary files
 SCCO Packet Installer https://www.butty.org/
 SCCO Packet Installer
- x:\SCC Notices

- downloaded text version
 Archive of the Outpost SCC Notices directory to reload if necessary x:\TNC Init files

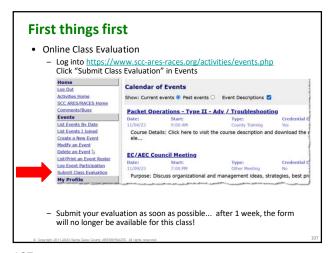
- Too many to list here... (https://www.scc-ares-races.org/data/packet/index.html)
 Unofficial Amateur Packet Radio Field References, Type III, Type II, e-book edition
- x:\Miscellaneous
 Pre-defined message ages to be edited prior to sending
- x:\MyMessages\<event>

 or whatever directory name you choose.





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Exercise Scenario

- You've been dispatched by the Xanadu EOC to provide communications for a field location.
 - The EOC's tactical call is XNDEOC on W1XSC.
 - Your tactical call is: XND### (Assigned by your instructor)
 - Your Message Prefix: X##

Where "##" are the last two digits of your tactical call

- Your assignment Name: Xanadu Post ##
 Operate using your home city's primary or secondary BBS.
- You arrive at your assignment and set up the station, but discover that Outpost on the packet PC does not work! Looks like you need to do all packet operations manually.
- Your assignment will be mailed to you ahead of time.

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Thank You!

Please complete the Course Evaluation on or before next Saturday 11-November!

Please complete the Assignment on or before next Saturday 11-November!

Office Hours:

Sunday, 5November, 3:00p to 5:00p (zoom) Wednesday, 8-November, 7:30p to 9:00p (zoom)

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

Questions, comments, suggestions? kn6pe@arrl.net

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