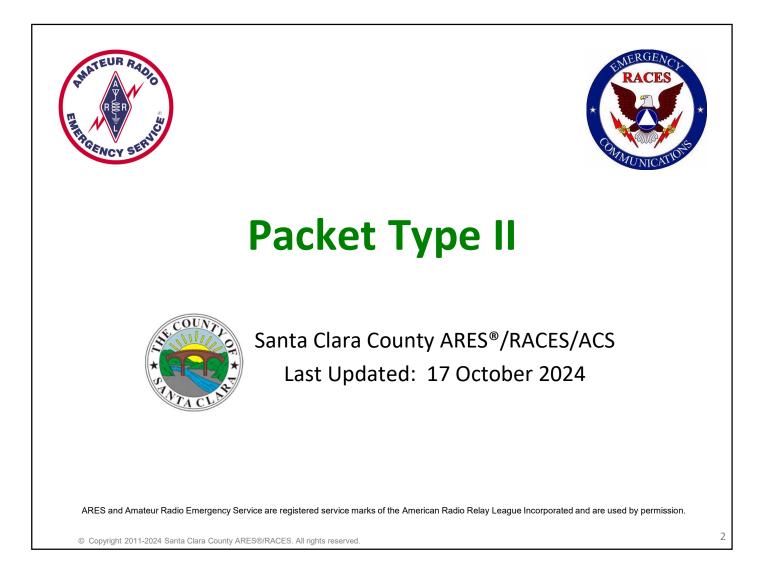
USE AND DISTRIBUTION NOTICE

- Santa Clara County RACES authorization is granted to use and duplicate this material as-is as long as this page and the copyright notices on each page are included, acknowledging Santa Clara County ARES/RACES as the holder of the copyright.
- Permission is granted to adapt this presentation to your needs as long as you acknowledge our copyright and include a note similar to "adapted with permission from Santa Clara County ARES/RACES"
- For additional information on training or any of our programs send an email to: info@scc-ares-races.org



Housekeeping

- Introductions
- Pen/pencil & paper
- Cell phones on silent or vibrate
- Side conversations
- Questions
- Breaks
- Restrooms
- In case of emergency
- No wandering or exploring other areas of the building.

© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

2024

FOLLOWING INSTRUCTIONS

UCTIONS

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 Exercise workbook

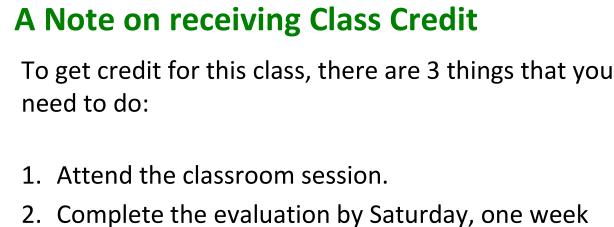
Packet Type III, Part B

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

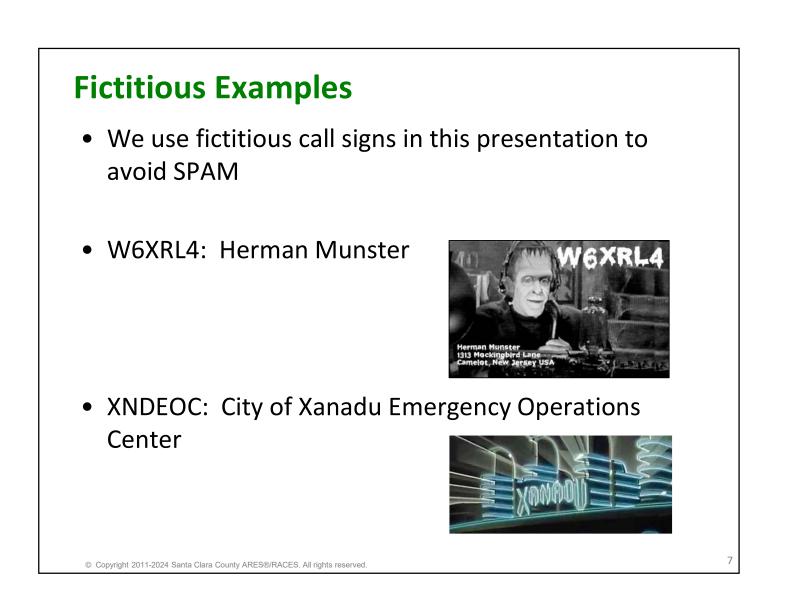
Packet Type II: Advanced Techniques, such as County EOC Packet Station Setup & Operations, Operating without Outpost.

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

 $\ensuremath{\textcircled{O}}$ Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.



- Complete the evaluation by Saturday, one week after the class. See the instructions at the end of this material.
- 3. Complete a short exercise by Saturday, one week after the class.



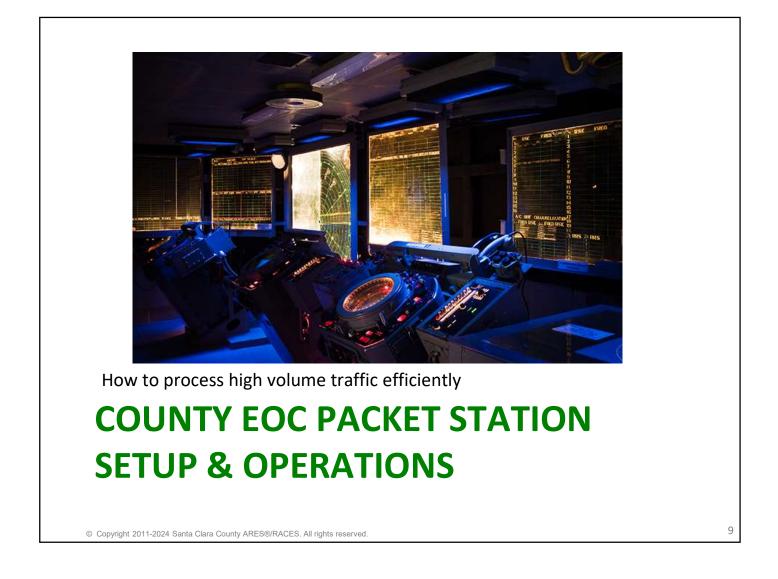
What about Xanadu?

 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).



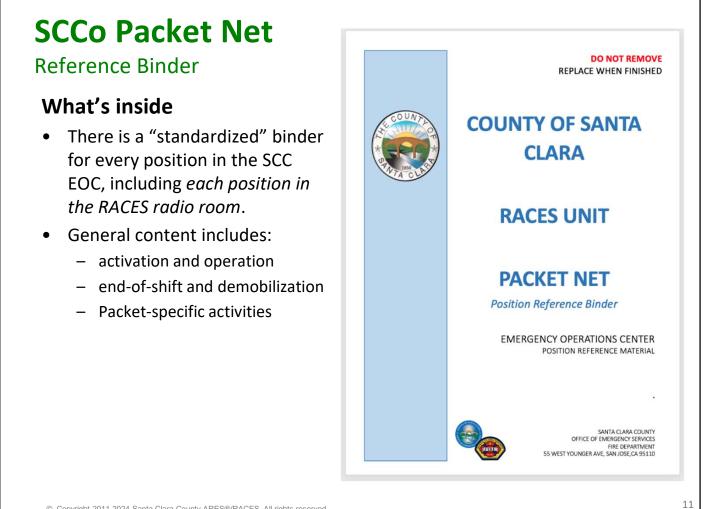
- Distant and mysteriously lost Xanadu, thus, came to represent a place of mystery, splendid luxury and easy living.
- Fortunately, you get to visit Xanadu only during Packet classes and Packet exercises.
- Only use an <u>XNDxxx</u> tactical call that has been specifically assigned to you for an exercise 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).

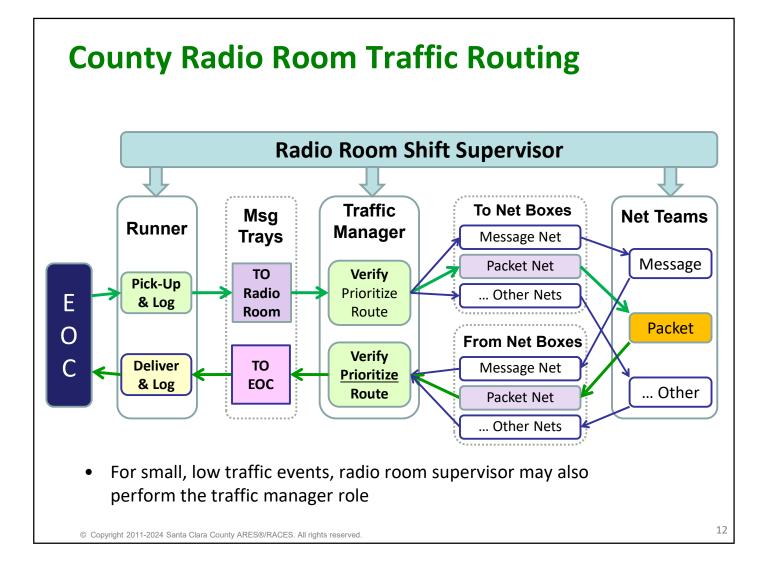
 $\ensuremath{\textcircled{}}$ Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

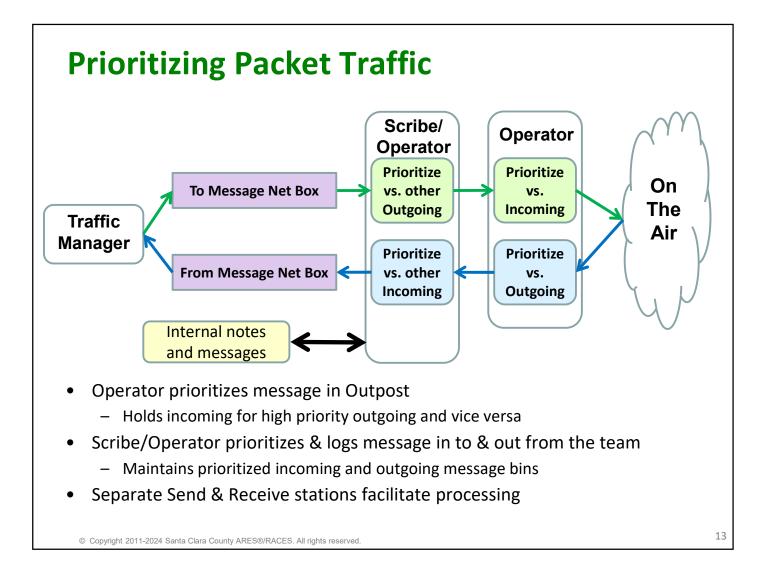


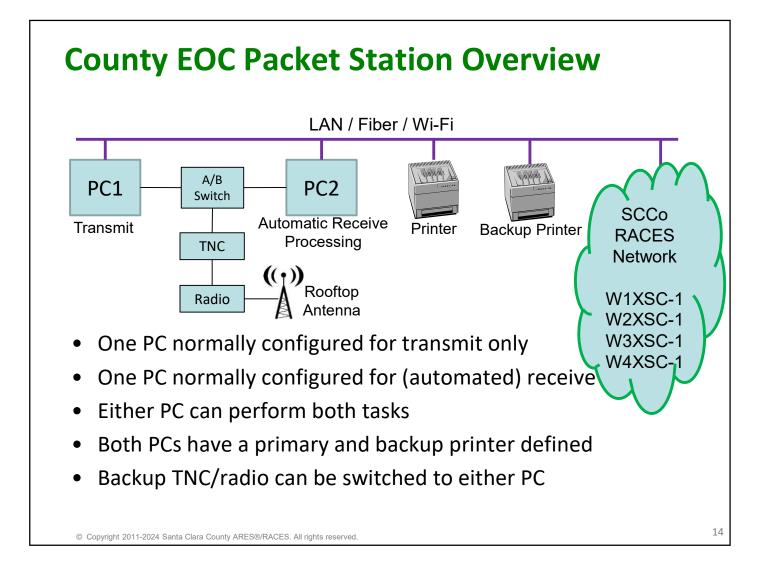
Packet Net Operations at County EOC

- 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









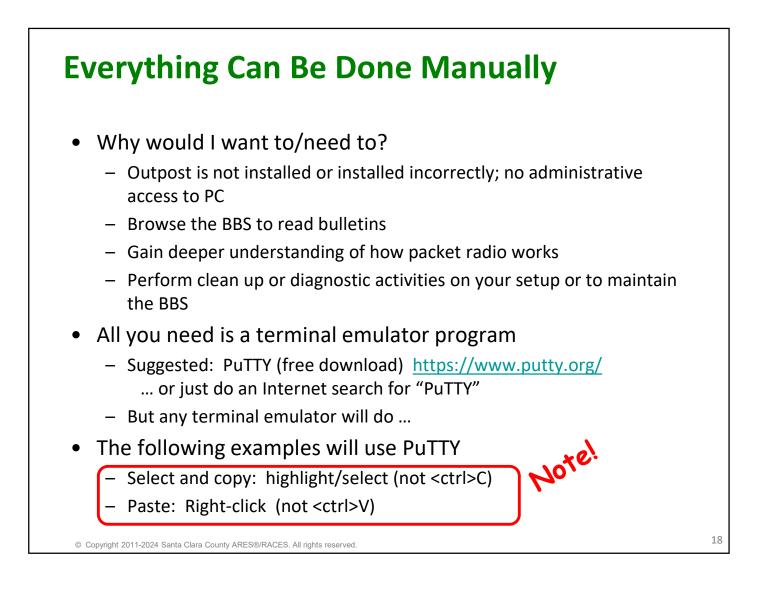


Its all about control with Text Commands

- 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

© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

Sidebar: Outpost Logs From Outpost: Actions > View Outpost data directory > logs I transaction211015.log - Notepad <u>File Edit Format View H</u>elp File Edit Format View Help 15-Oct 09:34:40: Outpost/Opsessn v3.5.0 c0: TNC Session # 15-Oct 09:34:40: Outpost/Opsessn v3.5.0 c0: TNC Session # 3019 3019 15-Oct 09:34:40: Using Call Sign KN6PE 15-Oct 09:34:40: Using TNC setup XSC_Kantronics_KPC3-Plus cmd:D 15-Oct 09:34:40: Using BBS setup XSC_W1XSC-1 Can't DISCONNECT, A Link state is: DISCONNECTED 15-Oct 09:34:40: TncCheck: TNC is ok cmd:b 15-Oct 09:34:47: TncInit: Complete as KN6PE BEACON EVERY Ø (disabled) 15-Oct 09:34:50: BbsConnect: Connected to W1XSC-1 as user cmd:Echo on **KN6PE** ECHO was ON 15-Oct 09:34:50: BbsConnect: BBS is JNOS cmd:my KN6PE 15-Oct 09:34:50: BbsDeleteMsgs: Done cmd:Mon off 15-Oct 09:34:50: BbsSendMsgs: Done 15-Oct 09:34:50: BbsSendMsgs: Done STREAMEV was OFF 15-Oct 09:35:03: BBSGetMsgs: Done cmd:STREAMSW \$00 15-Oct 09:35:17: BBSGetMsgs: Done STREAMSW was \$7C (|) 15-Oct 09:35:17: BbsSendMsgs: Done cmd:connect W1XSC-1 cmd:*** CONNECTED to W1XSC-1 15-Oct 09:35:19: BbsDisconnect: BBS Session closed [JNOS-2.0k.2.xsc.4-B1FHIM\$] You have 0 messages. (#0) > A XSCPERM xscperm: 6 messages 6 new. -🔢 Log Settings (#1) > Options L1: Send/Receive Session window logging FYI...Log Settings has L1 selected by default L2: Send/Receive Interface data trace Optional: select L2 for additional info L3: Send/Receive diagnostic trace L4: Main program diagnostics trace (restart Outpost to apply) 17



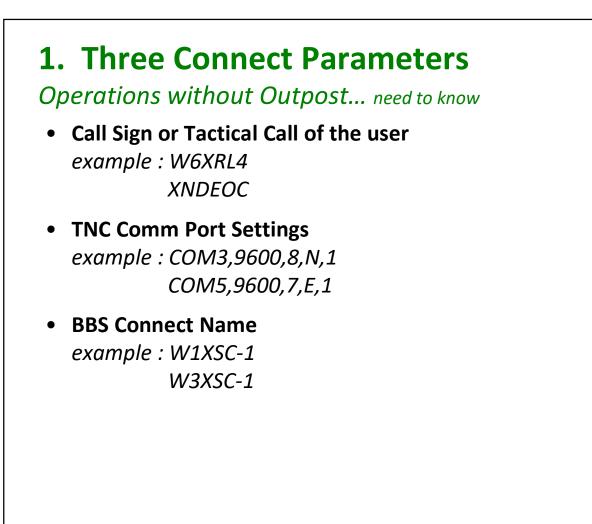
Summary of Steps to be Discussed

- 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

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

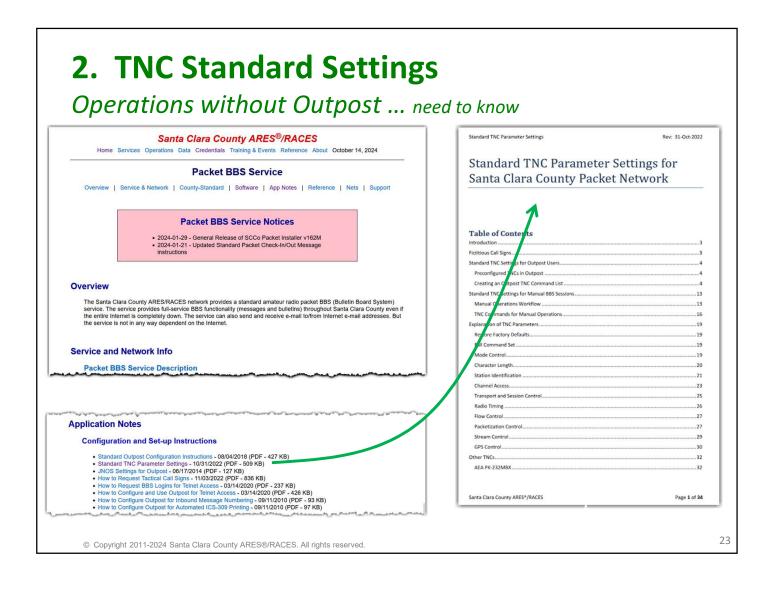


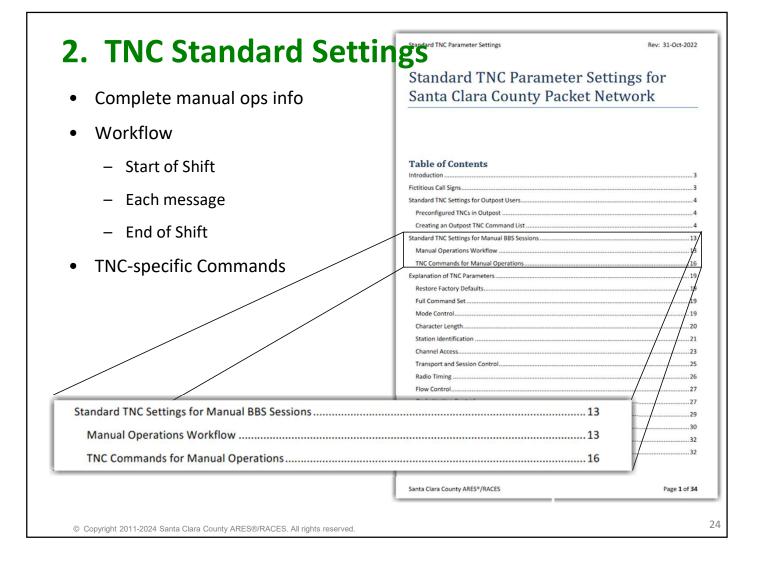
2. TNC Standard Settings

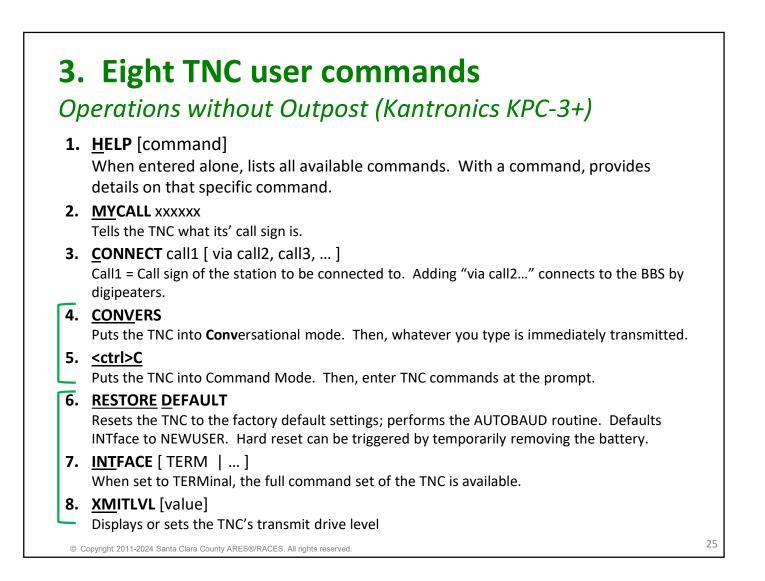
Operations without Outpost ... need to know

- 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: <u>https://www.scc-ares-races.org/data/packet/index.html</u> → Application Notes → Standard TNC Parameter Settings

... and specifically, the section titled: Standard TNC Settings for Manual BBS Sessions







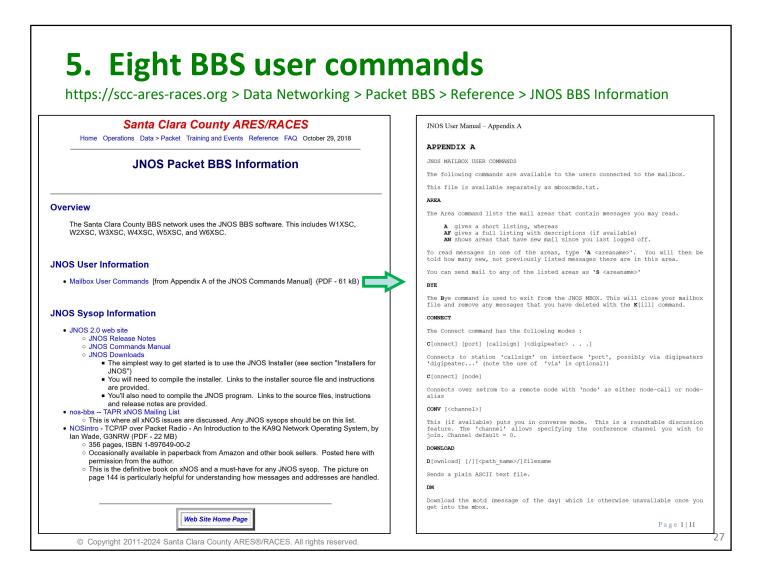
4. TNC Init Settings

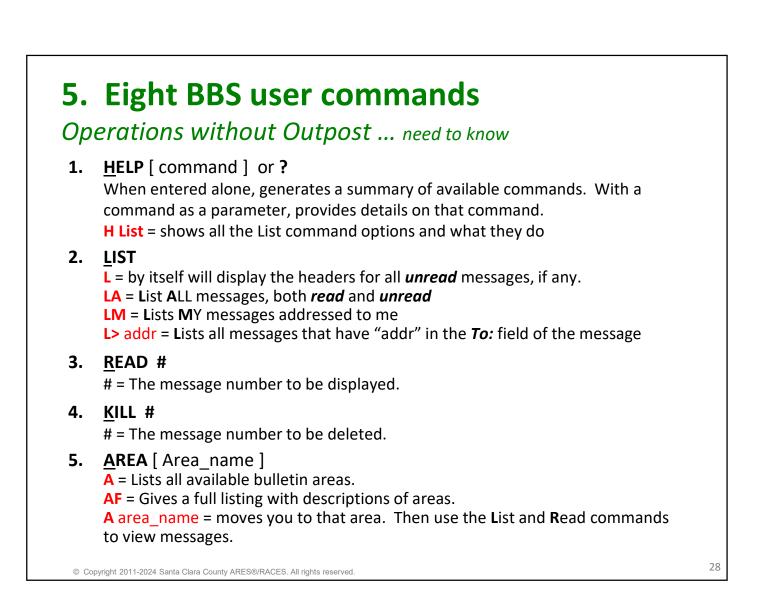
Operations without Outpost ... need to know

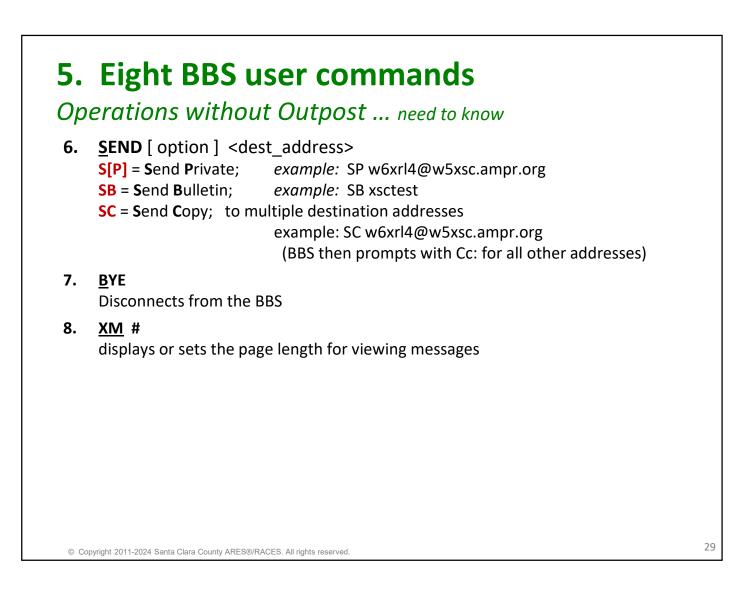
- Go to the "Standard TNC Settings for Manual BBS Sessions"
- Follow instructions in "Manual Operations Workflow"
- Use the "*TNC Commands for Manual Operations*" appropriate for your particular TNC

ТNC Туре	Manual Ops: Start of Shift	Manual Ops: End of Shift
Kantronics KPC-3+	INTFACE TERMINAL	STREAMSW \$7C
	MONITOR OFF	
	CD SOFTWARE	
	NEWMODE ON	
	8BITCONV ON	
	BEACON EVERY Ø	
	SLOTTIME 10	
	PERSIST 63	
	PACLEN 128	
	MAXFRAME 2	
	FRACK 6	
	RETRY 8	
	CHECK 30	
	TXDELAY 40	
	XFLOW OFF	
	STREAMEV OFF	
	STREAMSW \$00	

© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.



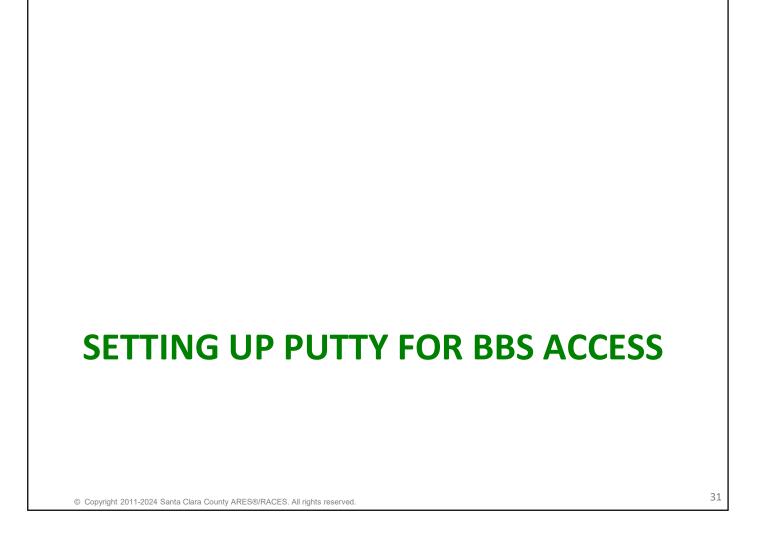


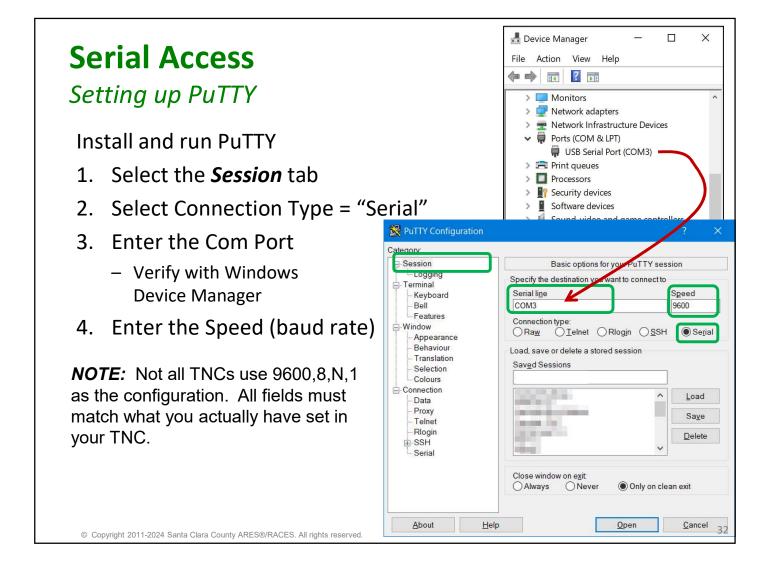


6. BBS Init Settings; Page Length

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
 - BUT... 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.





Set up Session Logging

Setting up PuTTY

- Next, click on the Session > Logging tab
- 6. Set Session Logging to⊙ All session output
- 7. Set up a log file name NOTE: &H does not work on Windows
- 8. ... if the file exists:OAlways append to the end

Why do logging at all?

- During manual operations, it is easy to lose track of what is going on.
- Logging Session logging: Non O Printable output Keyboard Bell All session output ○ SSH packets Features) SSH packets and raw data Window o file nam Appearance C:\temp\putty&Y&M&D.log Browse. Behaviour Translation (Log file name can contain &Y, &M, &D for date, &T for time Selection &H for host name, and &P for port number) Colours What to do if the log file already exists -Connection Always overwrite it Data Always append to the end of it Proxy OAsk the user every time Telnet Flush log file frequently Rlogin B SSH Options specific to SSH packet logging Serial Omit known password fields Omit session data About Help Open Cancel

Options controlling session logging

• Logging creates a history of your manual interactions and a reference if you ever need to go back and check if you got it all right.

Reputer Configuration

Category:

Session

 $\ensuremath{\textcircled{}}$ Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

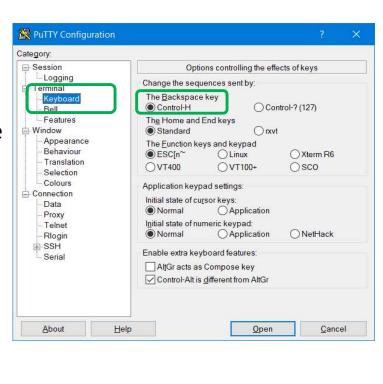
Change PuTTY's Backspace Key

Setting up PuTTY

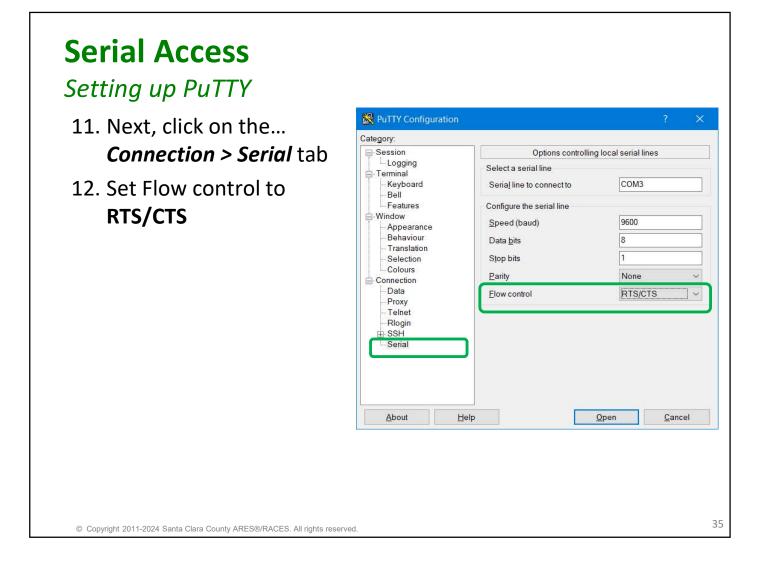
Next, click on the Terminal > Keyboard tab

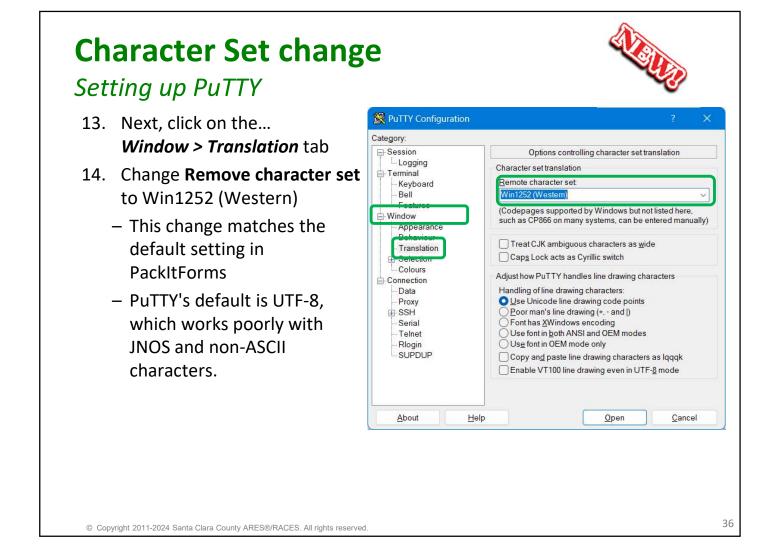
The PuTTY default does not send the backspace key code that the KPC-3+ expects. To correct this:

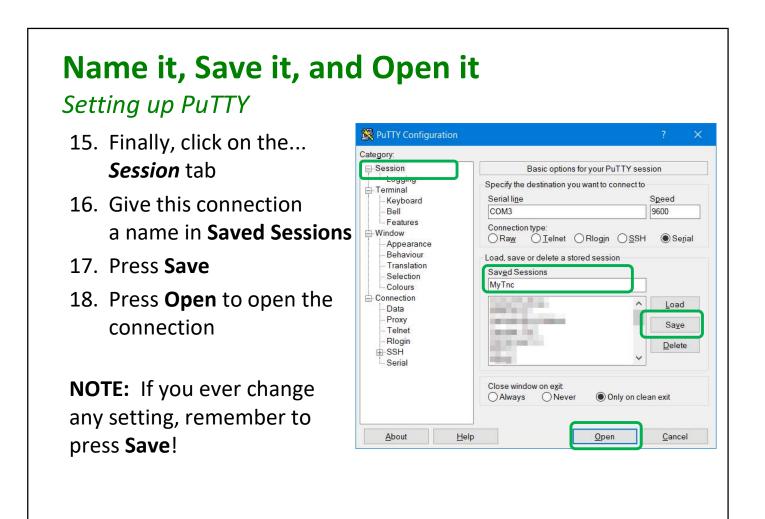
10. Set the Backspace key option to **Control-H**



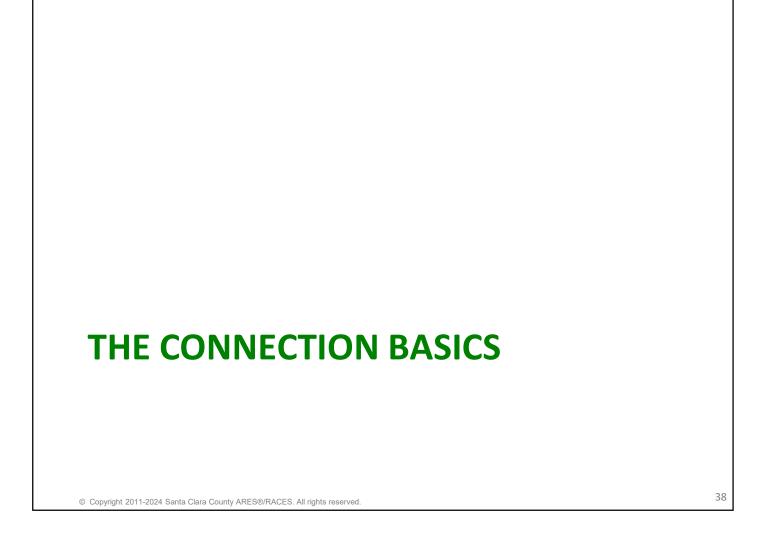
 $\ensuremath{\textcircled{}}$ Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

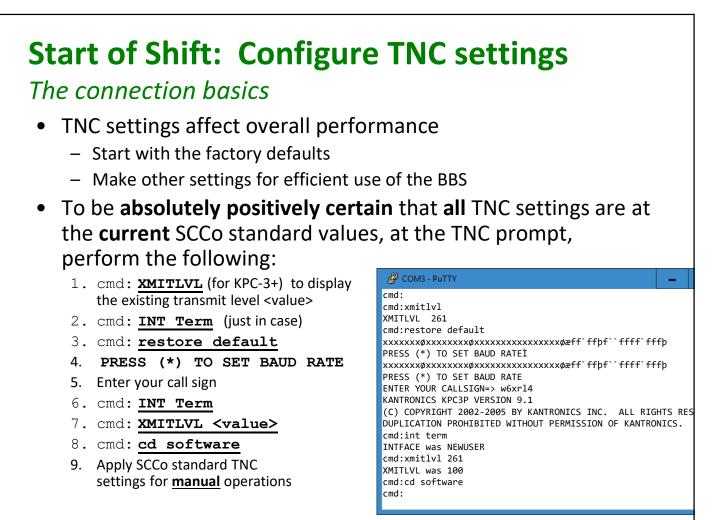






© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.





© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

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.

ТNC Туре	Manual Ops: Start of Shift	Manual Ops: End of Shift
Kantronics KPC-3+	INTFACE TERMINAL MONITOR OFF CD SOFTWARE NEWMODE ON 8BITCONV ON BEACON EVERY Ø SLOTTIME 1Ø PERSIST 63 PACLEN 128 MAXFRAME 2 FRACK 6 RETRY 8 CHECK 3Ø TXDELAY 4Ø XFLOW OFF STREAMEV OFF STREAMEV OFF	STREAMSW \$7C
t 2011-2024 Santa Clara County ARES®/RAC	ES. All rights reserved.	

Start of Shift: Configure TNC settings The connection basics

- X New Text Document.txt - Notepad File Edit Format View Help Create and save a text file with the "Start --- KPC-3+ Start of Shift --of Shift" and "End of Shift" TNC INTFACE TERMINAL commands. MONITOR OFF CD SOFTWARE **CAUTION:** Do NOT cut-and-paste NEWMODE ON **8BITCONV ON** directly from the PDF into your terminal BEACON EVERY Ø SLOTTIME 10 emulator; it doesn't always work. PERSIST 63 PACLEN 128 ****Best practice:** copy the commands MAXFRAME 2 FRACK 6 first into a text editor (Notepad), save it, **RETRY 8** CHECK 30 and then copy-and-paste from there into TXDELAY 40 your terminal program. XFLOW OFF STREAMEV OFF STREAMSW \$00 To send the "Start of Shift" TNC --- KPC-3+ End of Shift --commands, STREAMSW \$7C Connect to the TNC with PuTTY 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.

© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

Ln 8, Col 1!



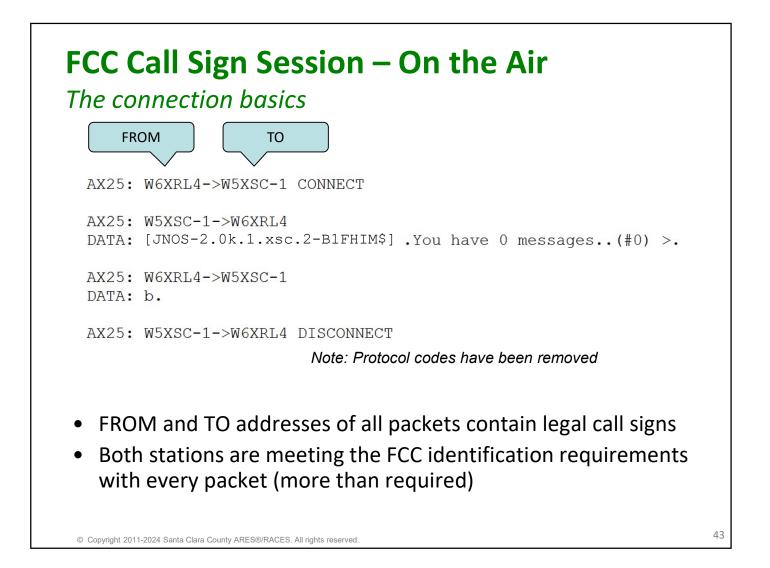
The connection basics

cmd:mycall w6xrl4
cmd:c w5xsc-1
cmd:*** CONNECTED TO W5XSC-1
[JNOS-2.0k.1.xsc.2-B1FHIM\$]
You have 0 messages.
(#0) >
b
*** DISCONNECTED
cmd:

Note: All SCCo BBSs have a 2 minute Inactivity Timer!

- On the TNC:
 - 1. Set **MYCALL** to your FCC call sign
 - 2. **CONNECT** to the BBS / mailbox service (SSID=1) on W5XSC
 - 3. Connected message from TNC
 - On the BBS:
 - 4. BBS says it is a JNOS BBS, version is 2.0k.1.xsc.2, with options
 - 5. You have no messages
 - 6. BBS Prompt: You are on message #0
 - You type "B" (bye) to terminate the BBS session The BBS drops the connection
- On the TNC:
 - 8. Disconnected message from the TNC
 - 9. TNC is ready for the next command

© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.



cmd:mycall xndeoc

You have 0 messages.

*** DISCONNECTED

This is w6xrl4

cmd:*** CONNECTED TO W5XSC-1

[JNOS-2.0k.1.xsc.2-B1FHIM\$]

Note: All SCCo BBSs have

a 2 minute Inactivity Timer!

cmd:c w5xsc-1

(#0) >

cmd:conv

cmd:

b

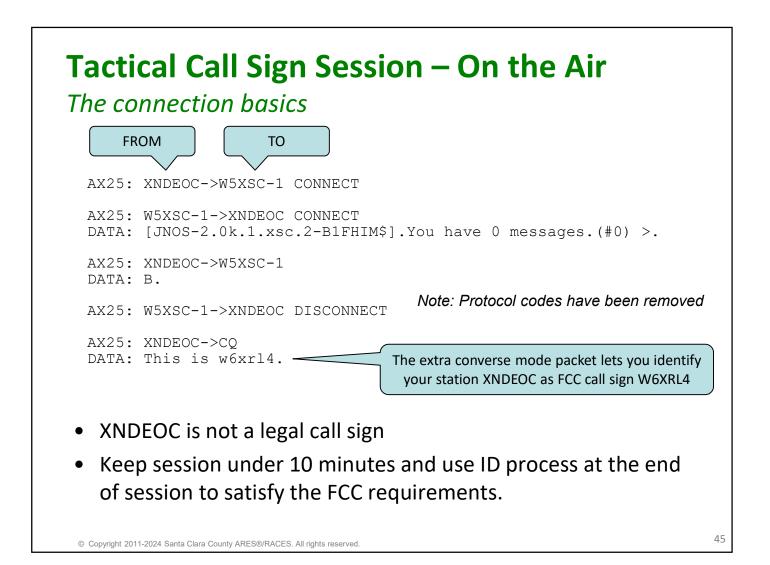
6

(10)

During the Shift: <u>Tactical</u> Call Sign Session The connection basics

- On the TNC:
 - 1. Set **MYCALL** to your tactical call sign
 - 2. **CONNECT** to the mailbox service (SSID=1) on W5XSC
 - 3. Connected message from TNC
- On the BBS:
 - 4. BBS says it is a JNOS BBS, version 2.0k.1.xsc.2, with IHM\$ options
 - 5. You have no messages
 - 6. BBS Prompt: You are on message #0
 - You type "B" (bye) to terminate the BBS session The BBS drops the connection
- On the TNC:
 - 8. Disconnected message from the TNC
 - 9. Enter **CONVerse** mode, and then type in at least your FCC call sign, press enter to transmit
 - 10. Enter **Cntl-C** to return to Command Mode. TNC is ready for the next command

© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.



End of Shift: Restore TNC settings The connection basics X New Text Document.txt - Notepad File Edit Format View Help After the BBS session has • --- KPC-3+ Start of Shift --disconnected, you should be back to INTFACE TERMINAL the TNC command prompt, usually: MONITOR OFF CD SOFTWARE cmd: NEWMODE ON 8BITCONV ON When your shift is finished and BEACON EVERY Ø • SLOTTIME 10 before you pack up the gear or turn PERSIST 63 PACLEN 128 it over to someone else, return the MAXFRAME 2 FRACK 6 TNC to "normal" settings **RETRY 8** CHECK 30 Cut-and-paste the "End of Shift" **TXDELAY 40** • XFLOW OFF Send/Receive settings into PuTTY at STREAMEV OFF STREAMSW \$00 the TNC command prompt --- KPC-3+ End of Shift ---STREAMSW \$7C Ln 8, Col 1! 46 © Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

MANAGING MESSAGES WITH JNOS COMMANDS

© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

BBS Connect & Logir	
 Ready to connect to BBS Set your call (FCC or tactical cmd: MYCALL W6XRL4 or cmd) 	, C
 Connect cmd: C W5XSC-1 JNOS gets login info from MYCALL No login prompt needed 	COM3-PuTTY - X cmd: cmd:mycall w6xrl4 cmd:c w5xsc-1 cmd:*** CONNECTED TO W5XSC-1 [JNOS-2.0k.1.xsc.2-B1FHIM\$] You have 1 message - 0 new. (#1) >
© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.	48

HELP

JNOS Commands

• Basic commands can be seen with HELP command

To get	rief listing o help for a spe	cific comman	nd, enter 'h c			
The fol alias escape jheard operato send zap	kill	bye help list ports	descriptions connect iheard mboxuser query verbose	available fo convers info nodes read what	download iproute nroutes register xpert	
Area: w6xrl4	(#1) >					

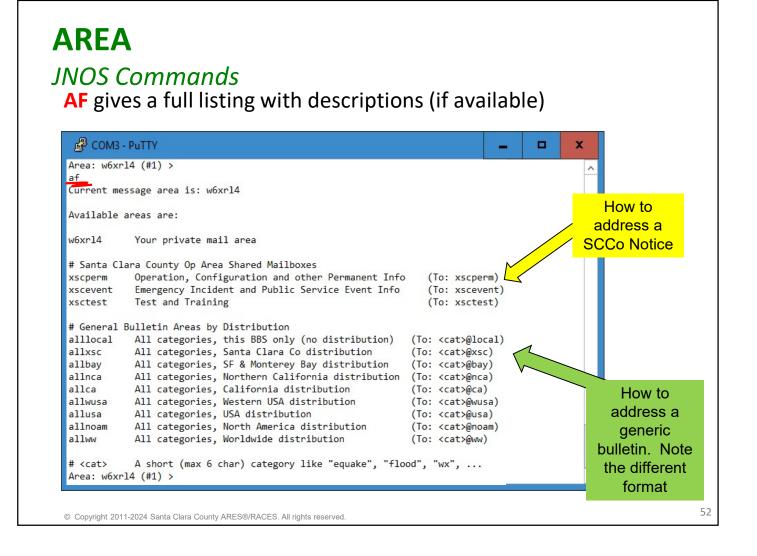
HELP <command> JNOS Commands Help with the command will give a detailed explanation COM3 - PuTTY x Area: w6xrl4 (#1) > help area The Area command will list the mail areas that contain messages you may read. It also moves you to those areas. You must be in an area before you can read messages in that area. A will give a short listing, whereas AF will give a full listing with descriptions (if available). A <areaname> moves you to that area. AF <areaname> will give more info about just that area (if available). AN will show areas that have new mail since you last logged off. To read messages in one of the areas, type 'A <areaname>' You will then be told how many new, not previously listed messages there are in this area. You can send mail to any of the listed areas as 'S areaname' Area: w6xrl4 (#1) > 50 © Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

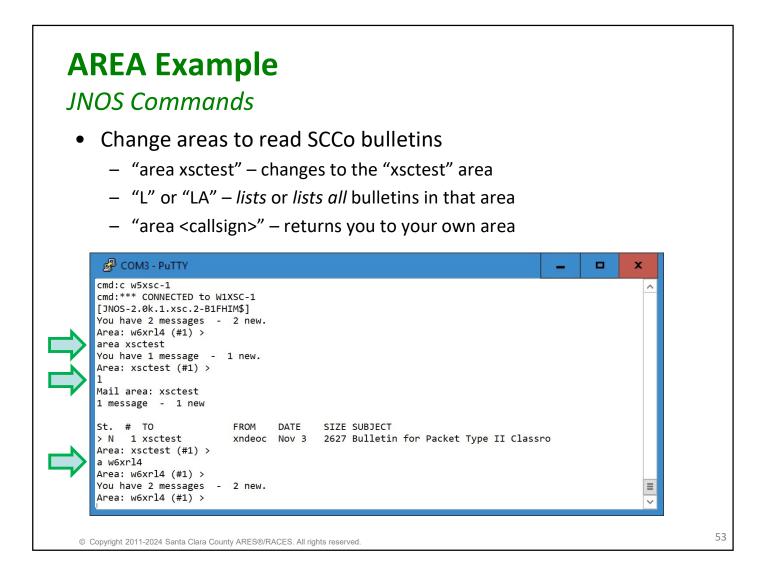
AREA JNOS Commands

- Messages are organized in AREAs
 - Your mailbox is an area
 - Bulletins: xscperm, xscevent, xsctest are each their own AREA

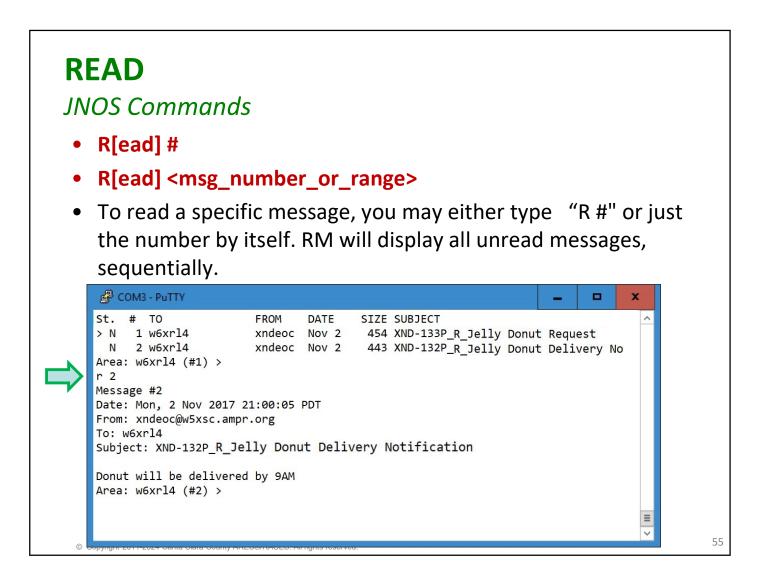
A[rea] gives a short listing, whereas ...

```
🚱 COM3 - PuTTY
                                                                x
Area: w6xrl4 (#1) >
area
Current message area is: w6xrl4
Available areas are:
w6xr14
         xscperm xscevent xsctest
                                                alllocal
         allbay
                                                allusa
allxsc
                   allnca
                             allca
                                      allwusa
         allww
allnoam
Type AF to get description of areas.
AF <name> tells more about that area.
Area: w6xrl4 (#1) >
```





LIST JNOS Commands Displays a list of the messages from the current mailbox (or "area") L - by itself will display the headers for all unread messages, if any. LA - list all messages, read or unread B COM3 - PuTTY cmd:c w5xsc-1 cmd:*** CONNECTED to W1XSC-1 [JNOS-2.0k.1.xsc.2-B1FHIM\$] You have 2 messages - 2 new. Area: w6xr14 (#1) > 1 Mail area: w6xrl4 2 messages - 2 new DATE SIZE SUBJECT St. # TO FROM 1 w6xr14 xndeoc Nov 2 454 XND-133P_0/R_Jelly Donut Request > N xndeoc Nov 2 443 XND-132P O/R Jelly Donut Delivery No N 2 w6xr14 Area: w6xrl4 (#1) > 54 © Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.



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 again

SEND

JNOS Commands

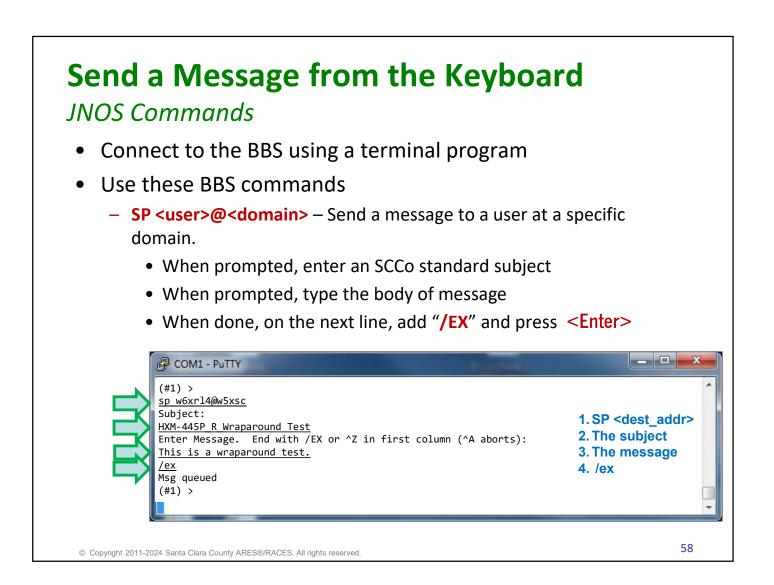
• The send (S) or send private (SP) command allows you to enter a message and send it to a user

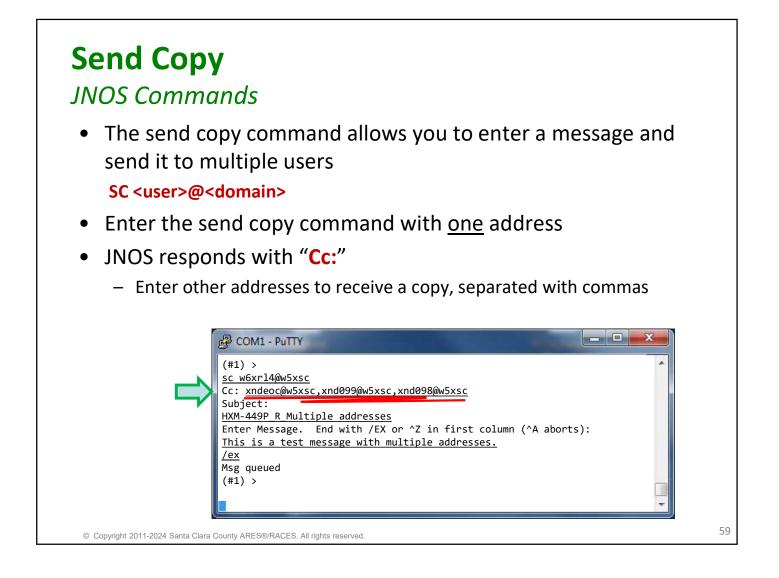
S[P] <user>@<domain> where

<user> = recipient's name <domain> = <bbscall> <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

 $\ensuremath{\textcircled{}}$ Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.





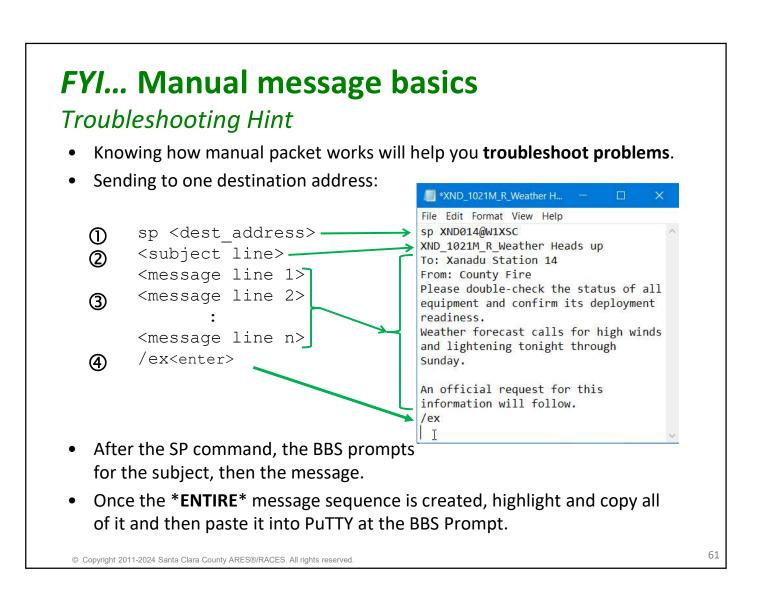
BYE

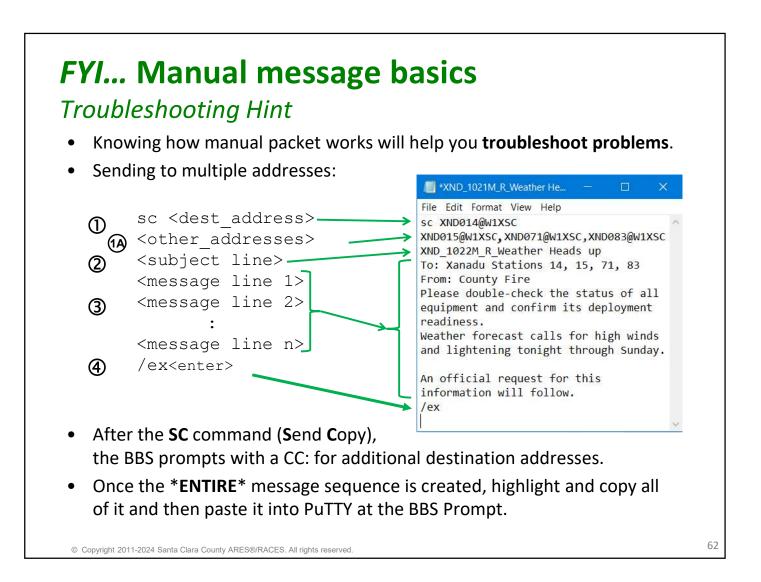
JNOS Commands

- When you are all done with the BBS, disconnect from the BBS
 B[ye]
- On disconnecting
 - Outgoing messages will be processed
 - Deleted (killed) messages will be removed

Don't Forget!!! All SCCo BBSs have a 2 minute inactivity timer!

© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.





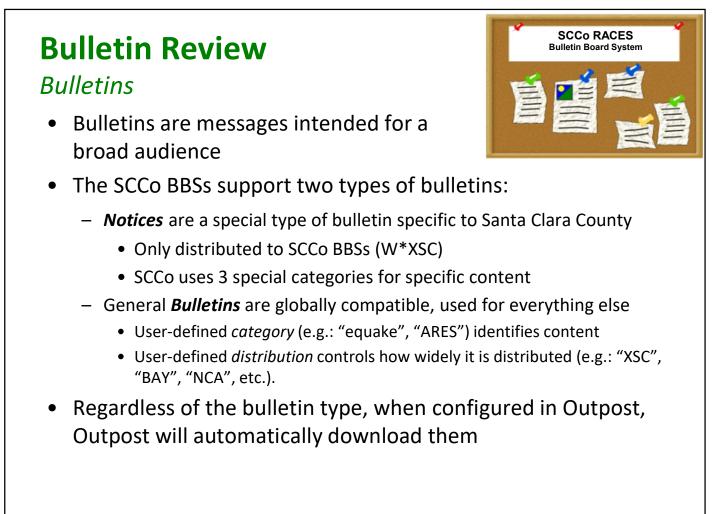
FYI... Manual message basics

Saving the message

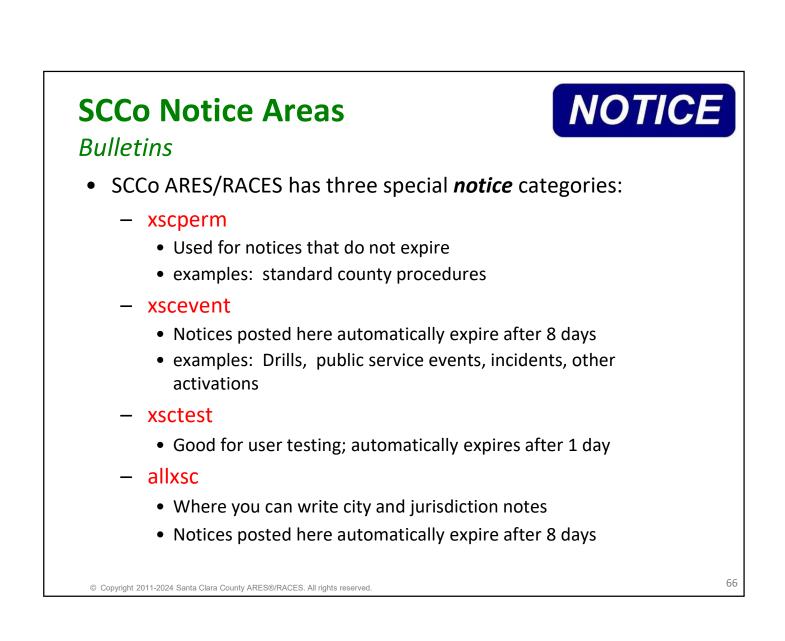
- There are reasons to save the message before sending it
 - You have copy for your records.
 - You can save all your messages before sending them.
 - Avoids having to re-enter the message if something goes wrong.
- Where you save the message is up to you. But:
 - If this is your PC, then save them anywhere 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-24-1009T (activation number)
- Use the message subject as the name of the file.

BUT... Manual PackItForms will do a lot of this for you!

<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header>



 $\ensuremath{\textcircled{O}}$ Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.



General Bulletins Overview

Bulletins

- 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? *Bulletins*

- 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

	Bulletin Addresses
Bulletins	
• Address fo	ormat: category@distribution
• Distribution	on
	aracter or shorter keyword which defines how widely the bulletin listributed
– Sender J	picks from a pre-defined list
 loca xsc bay nca ca wus usa 	 ble distributions: Local BBS only XSC Operational Area (Santa Clara County) San Francisco and Monterey Bay area No. California (generally north of the Tahachapi Mountains) California Western USA (generally, West of the Mississippi River) United States of America Morth America (Canada, USA, Mexico,) worldwide

General Bulletin Addresses (continued) Bulletins

Address format: category@distribution

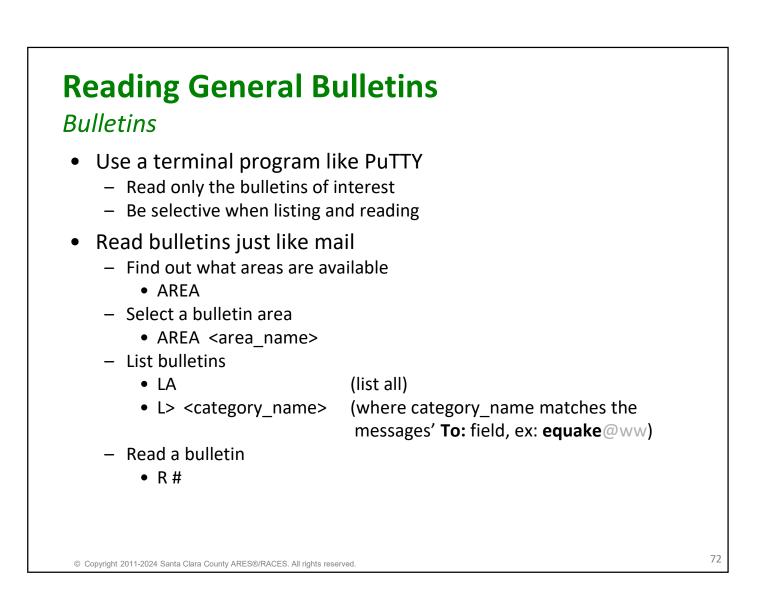
• Category:

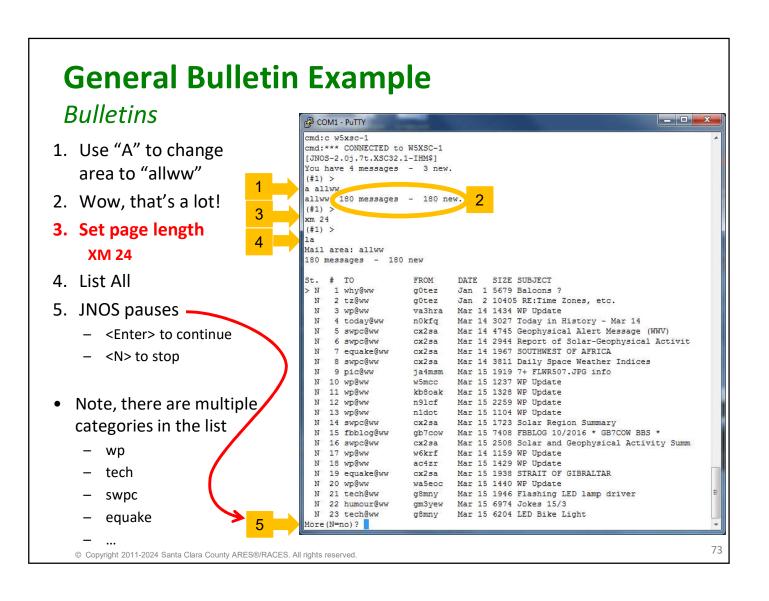
- A six-character or shorter description of the main topic of the bulletin.
- Sender picks the category based on the contents of the bulletin
- Example categories:
 - amber Amber alerts
 - equake Earthquake reports
 - flood Flood reports
 - tech technical topics, schematics, discussion
 - mtv, cup, sjc, 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

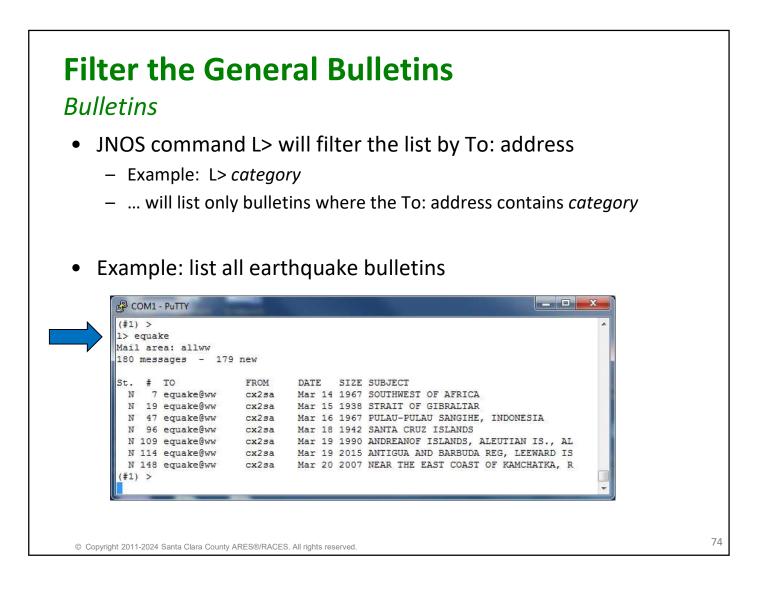
General Bulletin Addresses (continued) Bulletins

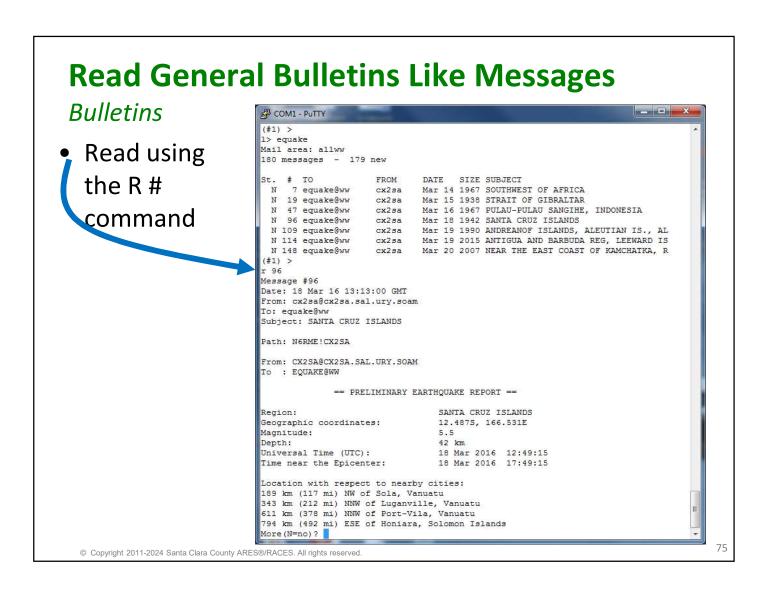
- Example bulletin addresses:
 - mtv@xsc
 - City of Mountain View information for distribution to all BBSs in Santa Clara County
 - flood@bay
 - Information about flooding for distribution to all BBSs in the San Francisco and Monterey Bay areas
 - equake@nca
 - Information about an earthquake for distribution 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

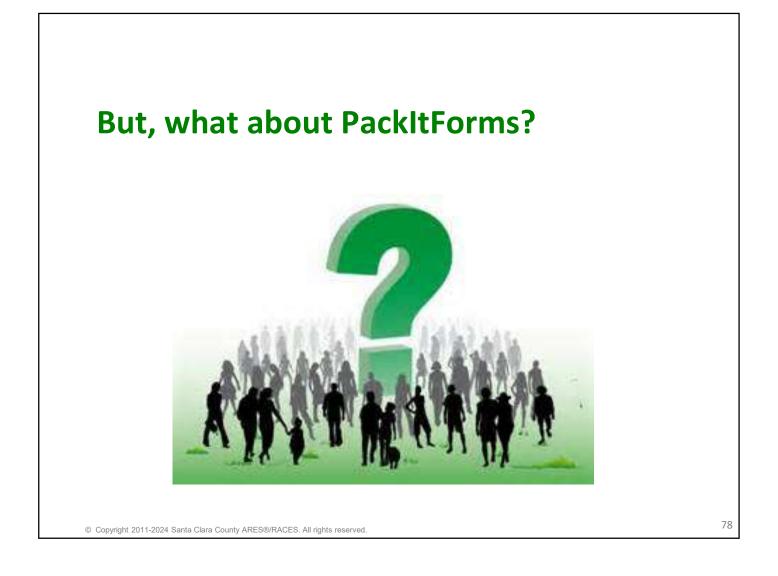
© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

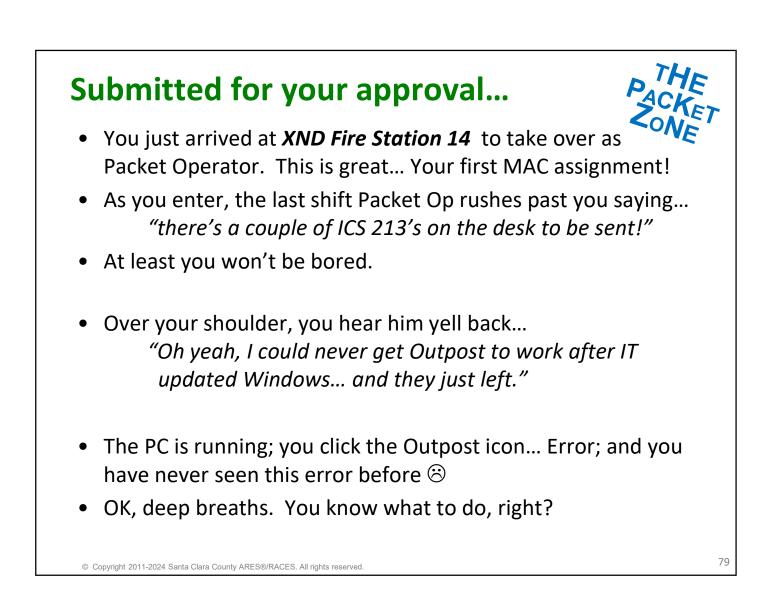












Manual PackItForms

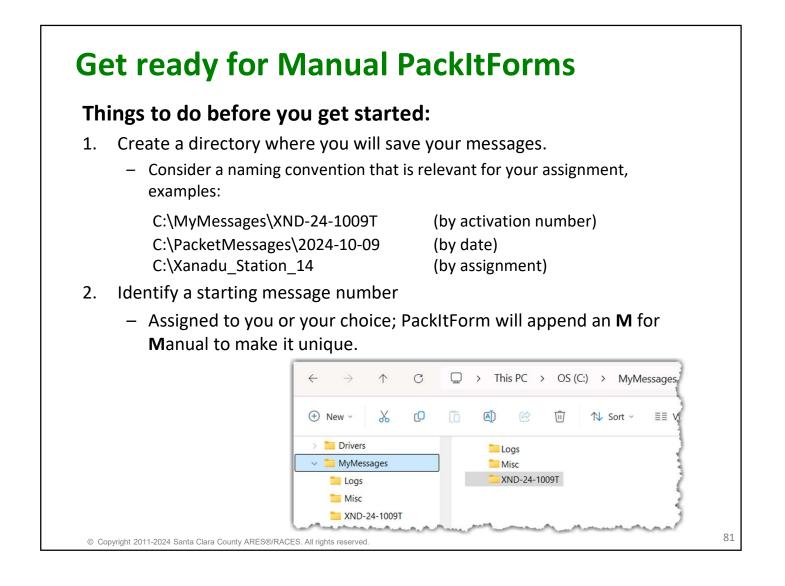
Fortunately, PackItForms is a message creation system designed to work with both Outpost or as a <u>standalone</u> solution for formsbased messages.

• 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

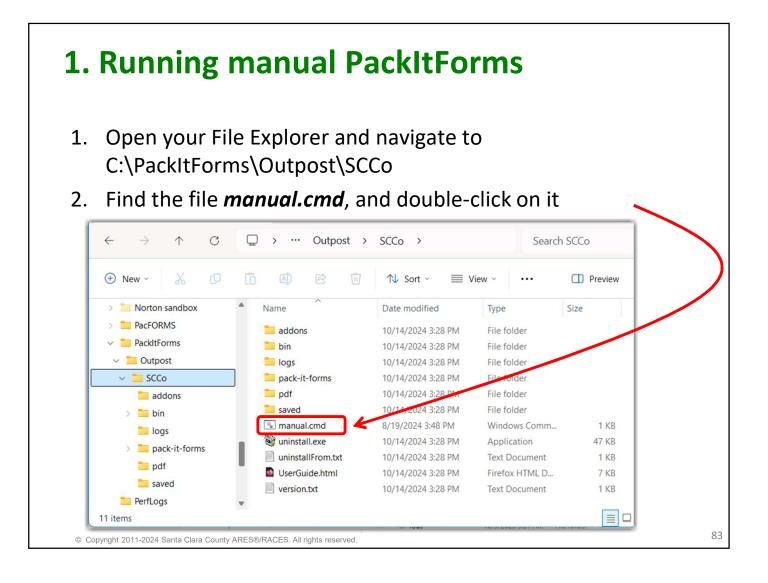
- Tight integration with Outpost
- Supports all PackItForms
- Formats a standard packet form for sending
- Processes a received packet form



Manual PackItForm messages

Manually create and send a PackItForm message

- 1. Run PackItForms with the *manual.cmd*
- 2. Set up your user ID, tactical ID, and other fields
- 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





Setup Page

Setup loads whenever you start up manual PackItForms.

- 3. Fill in or update all fields:
 - Your user information
 - Tactical Call information
 - Select your Archive Folder (messages are saved here)
 - Select Terminal Encoding
 - Next Message Number

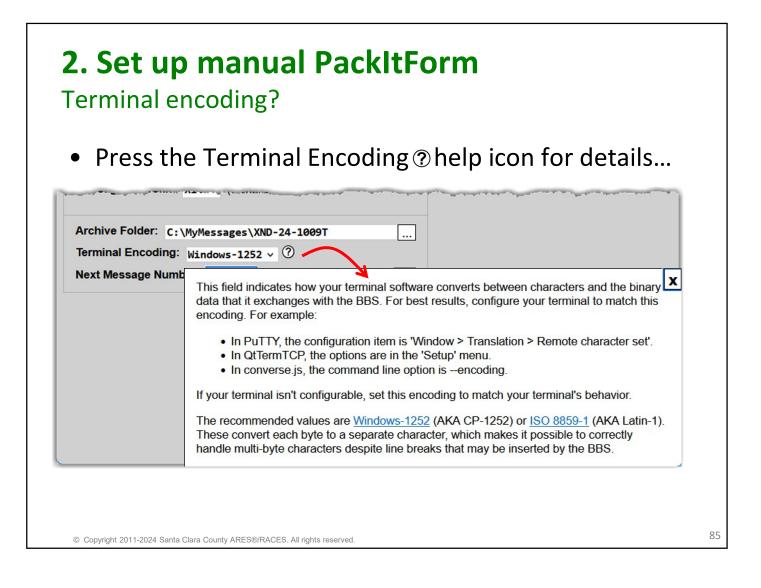
FYI... The Next Message Number will increment automatically.

4. Press **OK** when done

|--|

<u>F</u> ile <u></u>	<u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	-		×	
ē	Setup PackItForm	s × +			~	
\leftarrow	\rightarrow C \textcircled{a}	🗘 🗅 127.0.0.1:54873/man 🏠	± £	>>>	≡	
San	ta Clara Cour	ty ARES/RACES PackItForms		Version Pl	: 3.16 F: 2.3	
	User Call Sign:	W6XRL4				
	User Name: Herman Munster					
Message ID Prefix: RL4 (3 characters max)						
	☑ Use Tactical Call Sign					
Та	actical Call Sign:					
	Tactical Name:	Fire Station 14				
Me	essage ID Prefix:	X14 (3 characters max)				
Are	Archive Folder: C:\MyMessages\XND-24-1009T					
Ter	Terminal Encoding: Windows-1252 v ?					
Ne	xt Message Num	ber: 312	OK			
L						

84



3. Pick and fill in a form

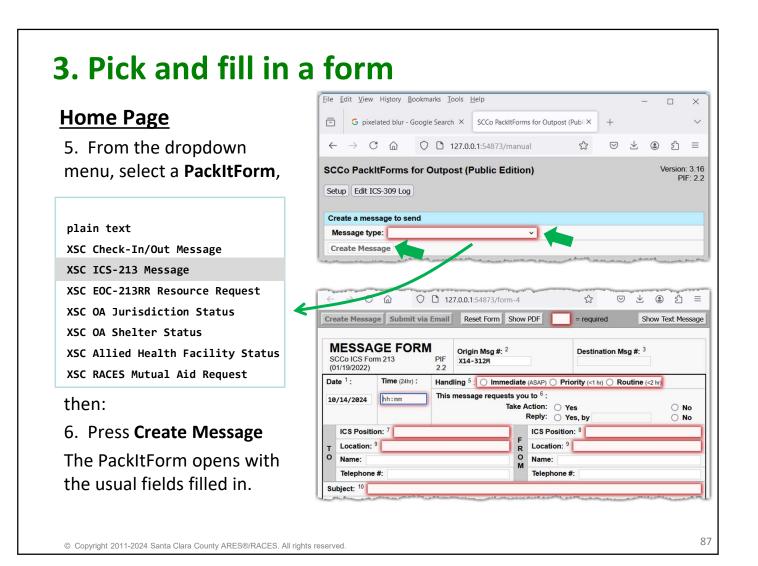
Home Page

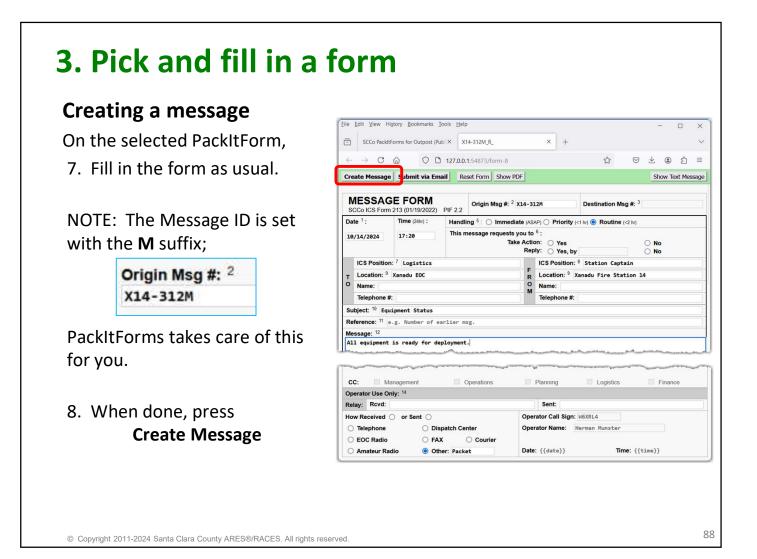
Consists of 2 sections and a series of controls:

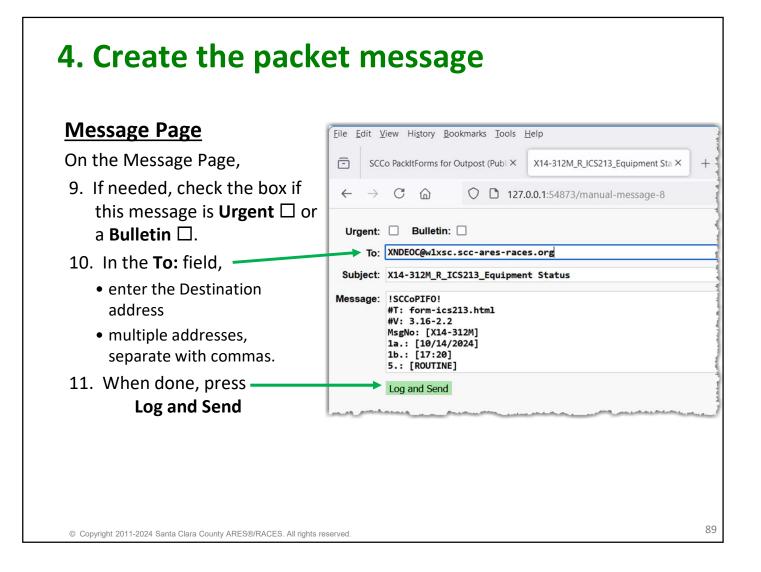
- Setup button: Opens the Setup page.
- Edit ICS-309 Log: lets you make updates to the manual ICS-309 Log.
- Create a message to send.
 Choose a PackItForm
 message, then press
 Create Message
- View a received message. Paste in a received message, then press Log and View

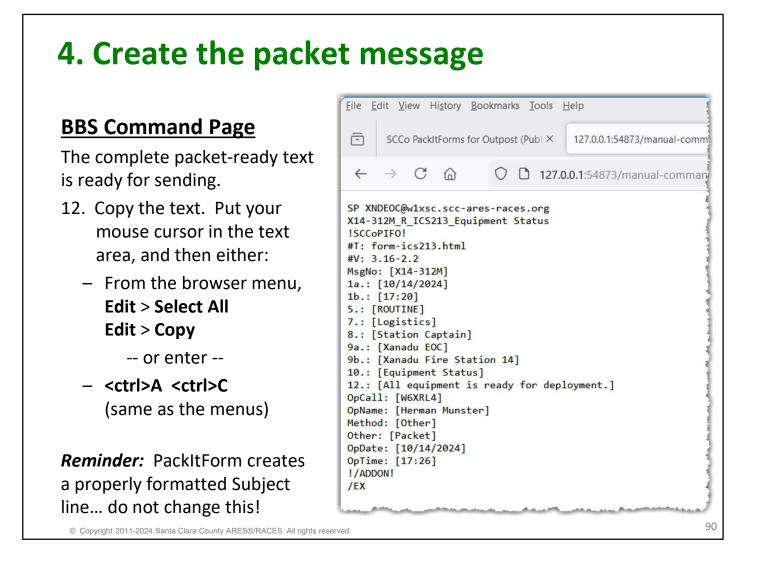
© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

Eile Edit View History Bookmarks Tools Help \times -G pixelated blur - Google Search × SCCo PackItForms for Outpost (Publ × + ♥ ⊻ ⑧ \leftarrow → C 🟠 🗘 🗋 127.0.0.1:54873/manual 값 മ ≡ SCCo PackItForms for Outpost (Public Edition) Version: 3.16 PIF 22 Setup Edit ICS-309 Log Create a message to send Message type: × Create Message ew a received message Enter the received message, including the From, Subject and other headers. You can paste, drag and drop or upload a file. Message: Date: ... Upload Subject: ... ISCCoPIFO! Download #T: MsgNo: [XYZ-123P] !/ADDON! Received Date: mm/dd/yyyy Time: hh:mm Log and View Reset Fields 86









5. Send the message

What are the Steps?

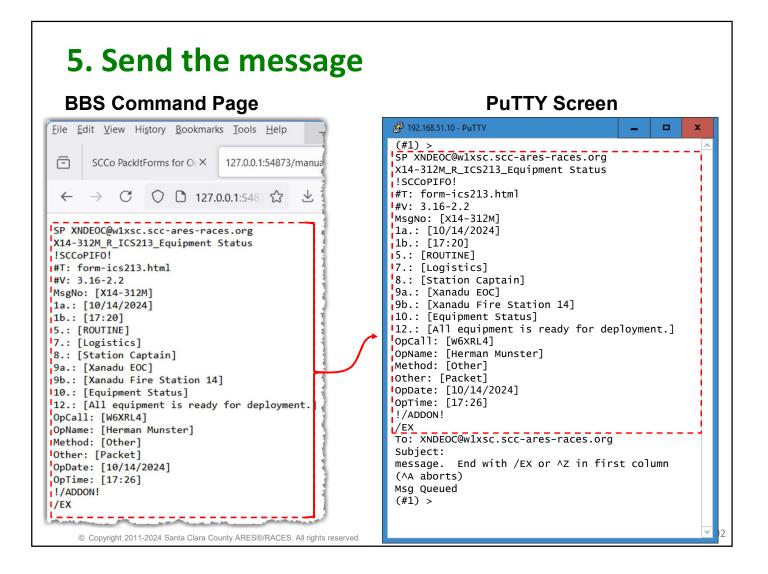
- 13. Make sure you previously copied the packet message from the **BBS Command** Page (previous page)
- 14. Start PuTTY
- 15. Connect to the BBS
- 16. Once at the BBS prompt:
 - Put the cursor in the PuTTY text area after the BBS prompt, and then
 - Mouse *right-click* to paste in the message.

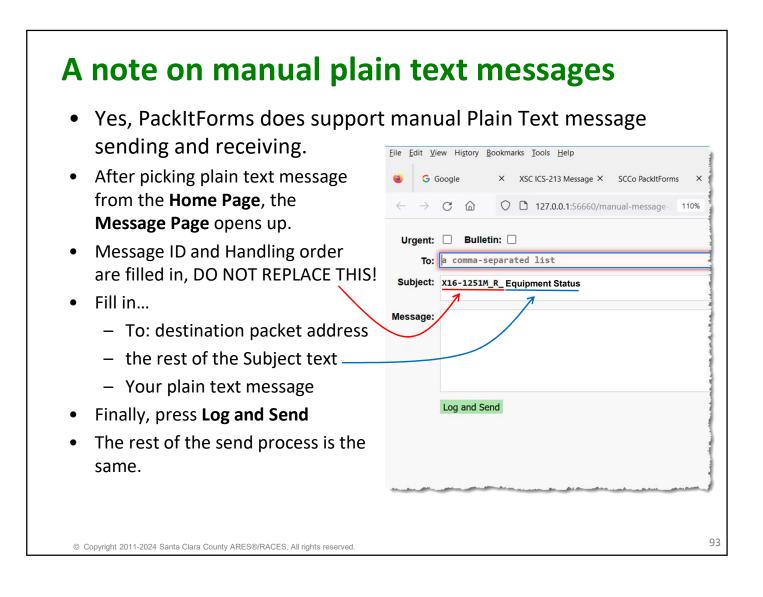
The complete packet-ready text is pasted into PuTTY and will start being transmitted to the BBS.

Reminder:

All SCCo BBSs have a 2-minute inactivity timer!

 $\ensuremath{\textcircled{}}$ Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.



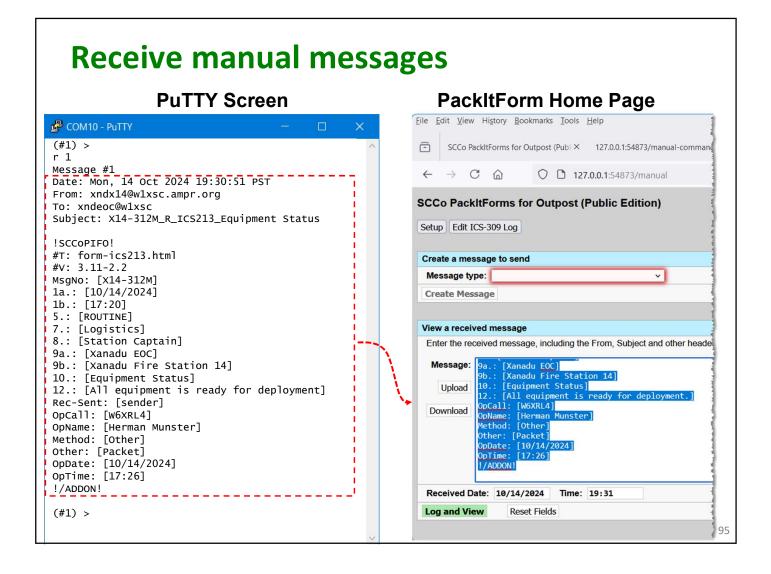


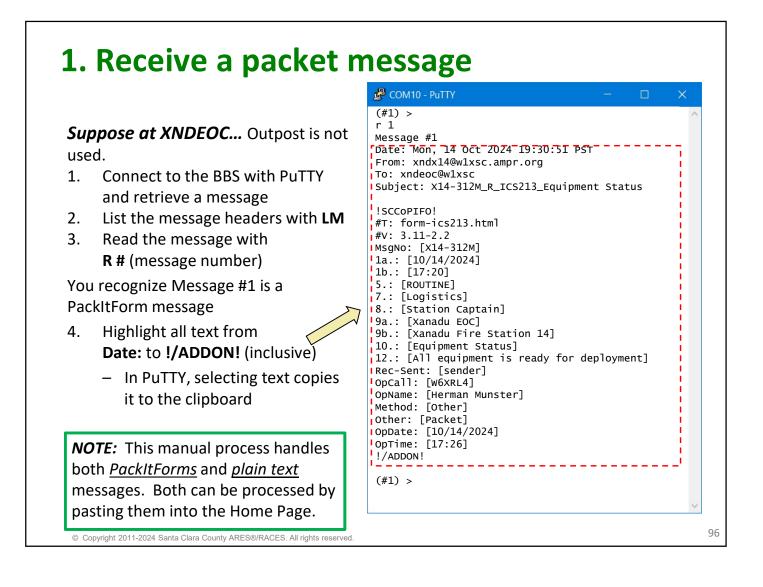
Manual PackItForm messages

Receiving messages

- 1. Receive 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)

Note: All SCCo BBSs have a 2-minute inactivity timer!





2. Recover the PackItForm message

Home Page

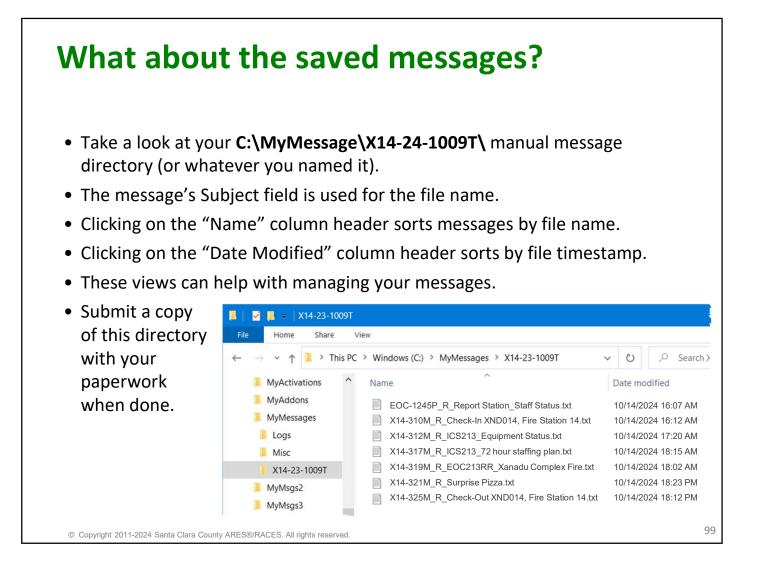
Back at the Browser, get back to the **SCCo PackItForms** tab

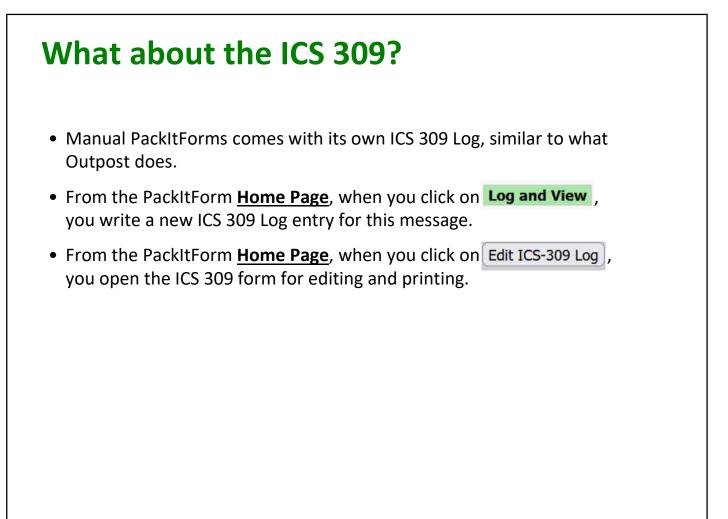
- Put your cursor in the "View a received message" section and enter <ctrl>V or Edit > Paste to paste in the received message.
- 6. Press Log and View.
 - This entry is logged to the ICS 309
 - The received PackItForm is opened in its PackItForm.
 - A copy of the message is saved
- 7. Once the PackItForm is opened, print and hand it off for delivery.

	Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp
SCCo Pa	ackItForms for Outpost (Publ × 127.0.0.1:54873/manual-comman
$\leftrightarrow \rightarrow c$	C 🙆 🗘 127.0.0.1:54873/manual
CCo Pack	ItForms for Outpost (Public Edition)
etup Edit I	CS-309 Log
Create a mes	ssage to send
Message ty	pe: v
Create Mes	sage
liew a receiv	ved message
	ved message ceived message, including the From, Subject and other heade
Enter the rec	ceived message, including the From, Subject and other heade
Enter the rec	eived message, including the From, Subject and other heade 9a.: [Xanadu EOC] 9b.: [Xanadu Fire Station 14]
Enter the rec	eived message, including the From, Subject and other heade 9a.: [Xanadu EOC] 9b.: [Xanadu Fire Station 14] 10.: [Equipment Status]
Enter the rec Message: Upload	veived message, including the From, Subject and other heade 9a.: [Xanadu EOC] 9b.: [Xanadu Fire Station 14] 10.: [Equipment Status] 12.: [All equipment is ready for deployment.] 0pCall: [W6XRL4]
Enter the rec Message:	<pre>peived message, including the From, Subject and other heade 9a.: [Xanadu EOC] 9b.: [Xanadu Fire Station 14] 10.: [Equipment Status] 12.: [All equipment is ready for deployment.] OpCall: [W6XRL4] OpName: [Herman Munster]</pre>
Enter the rec Message: Upload	<pre>xeived message, including the From, Subject and other heade 9a.: [Xanadu EOC] 9b.: [Xanadu Fire Station 14] 10.: [Equipment Status] 12.: [All equipment is ready for deployment.] 0pCall: [W6XRL4] 0pName: [Herman Munster] Method: [Other] 0ther: [Packet]</pre>
Enter the rec Message: Upload	<pre>weived message, including the From, Subject and other heade 9a.: [Xanadu EOC] 9b.: [Xanadu Fire Station 14] 10.: [Equipment Status] 12.: [All equipment is ready for deployment.] 0pCall: [W6XRL4] 0pName: [Herman Munster] Method: [Other]</pre>
Enter the rec Message: Upload	<pre>veived message, including the From, Subject and other heade 9a.: [Xanadu EOC] 9b.: [Xanadu Fire Station 14] 10.: [Equipment Status] 12.: [All equipment is ready for deployment.] 0pCall: [W6XRL4] 0pName: [Herman Munster] Wethod: [Other] 0ther: [Packet] 0pDate: [10/14/2024]</pre>
Enter the rec Message: Upload Download	<pre>veived message, including the From, Subject and other heade 9a.: [Xanadu E0C] 9b.: [Xanadu Fire Station 14] 10.: [Equipment Status] 12.: [All equipment is ready for deployment.] 0pCall: [W6XRL4] 0pName: [Herman Munster] Method: [Other] 0pDate: [10/14/2024] 0pTime: [17:26]</pre>
Enter the rec Message: Upload Download	<pre>xeived message, including the From, Subject and other heade 9a.: [Xanadu EOC] 9b.: [Xanadu Fire Station 14] 10.: [Equipment Status] 12.: [All equipment is ready for deployment.] 0pCall: [W6XRL4] 0pName: [Herman Munster] Method: [Other] 0ther: [Packet] 0pDate: [10/14/2024] 0pTime: [17:26] 1/ADDON! ate: 10/14/2024 Time: 19:31</pre>

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.





© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

100

What about the ICS 309?

- All fields are editable.
- Required fields are highlighted in RED.
- Deletes this line from the Comm Log
- Adds another line as a manual entry.
- Erase All clears the form. Also, Undo Erase All – restores the form.
- Generate CSV File creates a .csv file of the Comm Log.
- **Print** prints the Comm Log to the selected printer.
- Save Saves any changes you made.

ile <u>E</u> dit	<u>V</u> iew Hi <u>s</u> tory <u>B</u> o	okmarks <u>T</u> ools	Help					-	-		×
sco	Co PackItForms	×	ICS-309		×	+					~
$\leftarrow \rightarrow$	C @	0 🗅 127.	0.0.1:60400/ma	nual-edit-log	110%	☆	${igodot}$	lu\	?	එ	=
COMM	Log 1. Incid	lent Name and Ad	ctivation Number	2. Operatio	nal Period	(Date/Tim	e)	_			
ICS 309 ARES/R					m/d/yyy hh:mm	'y	To:	m/d/ hh:n	<mark>yyyyy</mark> nm	,	
3. Radio	Net Name (for NCC	s) or Position/Ta	ctical Call 4. F	Radio Operator (N	lame, Call	Sign)	_	_			
							_ ,	cal	l-si	gn	
5.			COMN	UNICATIONS	LOG						
Time	FR	MO	1	го	Mess	ane					
(24:00)	Call Sign/ID	Msg #	Call Sign/ID	Msg #	INIC33	uge					
13:49	XND022	X22-121M	XNDEOC@w1		R_Che	ck-In X	NDØ22	2, Ki	os	亩	\oplus
14:27	XND022	X22-123M	XNDEOC@w1	-	R_ICS	213_0pe	ning	Stat	us	亩	\oplus
14:41	xndeoc@w1	XND-3001P	XND022	X22-124M	R_ICS213_opening status			us[b	\oplus	
		XND-2009P	XND022	X22-126M	R ICS	213_4-h	our f	esti	va	亩	Ð
15:13	xnaeoc@w1										

09:26	26 XND014 X14-313M		XNDEOC@w1	R_Check-Out XND014, Fir . 💼 🕀			
09:37 xndeoc EOC-1245P		XND@xsc	R_Report Station/Staff 🛅 🕀				
hh:mm				\oplus			
6. Prepar	ed By (Name, Ca	all Sign)	6A. Signature	7. Date & Time Prepared			
				m/d/yyyy hh:mm			

Ma	anual packet operations; not many changes						
This	s is a tool change , not a process change						
1.	First Shift						
	a. Show up, request a safety and assignment briefing						
	 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						
	 Download notices, send yourself a test message 						
	 Send the formatted check-in message with your Tac Call 						
	c. Manage the message flow						
4.	Incoming Shift Change						
	 Request a safety and assignment briefing 						
5. Outgoing Shift Change							
	a. Archive the event documentation						
6.	Securing Operations						
	 Send the formatted check-out message with your Tac Call 						
	b. Archive the event documentation						
© Co	c. Shutdown opyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.	102					

Amateur Packet Radio Field Reference, Type II

• Taking a quick look inside

Table of Contents

12		CK REFERENCE
	2.1	PURPOSE
	2.2	HOW TO USE THIS HANDBOOK
	2.3	Other References
3	MA	NUAL PACKET OPERATIONS
	3.1	TNC COMMANDS
	3.2	BBS Commands
	3.3	CONNECTING TO THE TNC WITH PUTTY
	3.4	START OF SHIFT: CONFIGURE TNC SETTINGS
	3.5	END OF SHIFT: RESTORE TNC SETTINGS
	3.6	GETTING READY FOR MANUAL MESSAGING
	3.7	MANUAL MESSAGE BASICS
	3.8	SENDING A PACKITFORM MESSAGE MANUALLY
	3.9	RECEIVING A PACKITFORM MESSAGE MANUALLY
	3.10	VIEWING SAVED MESSAGES
	3.11	Notes on Manual ICS 309 Comm Log

© Copyright 2011-2024 Santa Clara County ARES®/RACES. All rights reserved.

(the unofficial) Amateur Packet Radio Field Reference, Type II

For SCCo RACES Responders

November 2023



