# Tips For The Next Time in Packet (DRAFT)

Author: Mark Laubach, K6FJC, SCC ARES/RACES ADEC/DCRO

This document is a personal view of the author based on observations and is intended to provide some preparation suggestion for radio operators taking part in future packet operation activities.

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#### Introduction

SCC ARES/RACES held an annual Communications Exercise and SET on Saturday, 09 October 2021 in Edith Morley Park in Campbell, California. This document will not go into the details of the event, they can be found and reviewed via the scc-ares-races.org website. Rather, this document looks at the Packet Operations portion of the exercise from the viewpoint of the Packet Manager and is based on actual observations at this event. This document was created to suggest some general and specific tips for preparation for maintaining enjoyment and a satisfying experience at a future packet event. To group suggestions, an individual's preparation can be broken into the following segments:

- Pre-Event Preparation
- Mobilization and Pre-Set Up
- Set Up and Operation
- Close Down, Archiving, and Tear Down
- The End

## **Pre-Event Preparation**

#### Checklists

For SCC ARES/RACES checklists are in your future. If a checklist is provided for your position assignment – please follow it and check off items as you complete them. If you have access to a prepared checklist before an assignment, print it, read it, and ask any questions ahead of time. At the event check off items as you complete them.

I now know that SCC ARES/RACES checklists are in our future

Suggestion: when scheduled, the SCC Country Monthly Packet Message Passing exercise offers an opportunity to sign up for the event and indicated you intend to use your alternate packet station. If you do select this option, a recommendation is to create a check-list for all the items and other details for setting up your equipment at another location, whether it is the kitchen table, garage, nearby park, etc.

#### Maintaining and Building Experience and Practice

Quoting Yogi Berra: "In theory there is no difference between theory and practice - in practice there is". You get your theory in attending and reading the SCC Packet training courses and you get your practice operating a packet station when completing class homework and exercises, but mainly when participating at county or city exercises and real events. You are on your own for what you practice between events and maintaining practice routines is key.

On a periodic basis, here are some suggestions (you get to choose the period):

	Review all Packet Operations training material under <u>ARES/RACES Training Courses</u> , including the material
	located under "Course Materials" for each course. Look for updated material and refresh yourself on key
	points and operation
	Participate in the <u>weekly packet practice</u>
	Participate in the monthly packet message passing exercise when offered
	Quarterly: tear down your home packet station and set it up somewhere as if you were going to bring your
	own equipment to an event. Check cable and replace any aging batteries. Test, refresh, replace, perform
	any Outpost and OS updates needed if you don't do these regularly. Send plain-text and all forms
	messages to yourself, freshen up all notices, etc. If you don't have your own packet stations, borrow one
	(from your city?) or simply study up on the SCC county packet station standard configuration
	Create a checklist of <u>all</u> items in your packet station that you need to bring for an assignment. Include any
	backup equipment, power, cables, etc.
	Make sure your 2-hour and 12-hour Go-Kits are up-to-date and ready to go. Freshen up anything that may
	have expired, including forms. Note: consider a small Philips screwdrivers and CR2032 (or BR2032) battery
	for a KPC 3+ TNC as well as what you need for your own packet station TNC if different.
П	Study up on the diagnosis and remedy of common packet station problems or errors. Include any new
	material from classroom training and the SCC packet discussion group.
	Take advantage of any new periodic training that may be offered.
	Challenge yourself: try sending and receiving messages, notices, and PacketItForms without using Outpost
	(see the Packet Ops Type II course training for KPC 3+ commands and JNOS commands.)
	Have a USB thumb drive reserved for packet files. You may need one need one to copy the files created
	during the Close Down, Archiving, and Tear Down procedure. Additionally, you may want to have a copy of
	the following items are your USB drive: Outpost installation file, Putty install file, favorite text editor file
	(e.g. Notepad++) backup copy of your C:\SCCo Packet and C:\PackItForms directories and the
	documentation files listed in the next section

#### Documentation

Having all SCC documentation is a good thing.	Have the most current SCC documentation is the best thing. For Packet
Operators, the following "most current" docur	mentation is suggested:

[	□   "	'Performance Standards and Best Practices"
[		Go-kit checklists for 2-hour and 12-hour
[	<b>]</b> "	'Standard Outpost Configuration Instructions"
[	<b>]</b> "	'Standard Packet Message Subject Line"
[	<b>"</b>	'Standard Packet Check-In/Out Message"
[		County Packet BBS frequency list, primary/secondary City assignments, city EOC tactical calls
[	<b>」</b> "	'RACES Recommended Form Routing Cheat Sheet" (this is your messaging best friend, know it well)
	<b>」</b> "	'Outpost Users Guide, Basics"
		All XSCPERM BBS notices downloaded and stored in an "SCC Notices" special folder in Outpost
[	] I	f you are going to ask for a packet credential evaluation: "Credentialing Program Handbook"
Having	equip obler Knov	Familiarization and Knowledge sment is one thing (and a good thing!!). Knowing how to best operate it is another also diagnosing and ms. The following is <a href="suggested">suggested</a> for maintaining familiarization and knowledge:  w the User manual for your packet radio(s) and hand-held radio (reminder that for credentialling, all set operators need to be current with P3/F3/Type IV radio familiarity and equipment at least once each
		r). Radio "mini-manuals" are also good if they are complete.
	Ever	n if you are using your own non-KPC 3+ TNC, know the county standard KPC 3+ basic commands as per tronics KPC-3 Plus user manual Rev H:
		Cabling and adapters: power, RS-232C to computer, data port to your or different radio
		Hard Reset (aka: "the last thing to do")
		Calibration / Equalization (verify as part of if the BBS doesn't hear you all the time)
		Know how "To get out of KISS mode"
		nonstrate personal HT radio familiarity for Type IV Communicator knowledge, without using umentation or assistance.
		nonstrate dual-band and/or mono-band mobile radio familiarity as per P2 knowledge, without using

## Following Directions and Don't Skip Details

Just a reminder to read things thoroughly and don't skip over the details, especially with new material. SCC ARES/RACES presents a lot of details in our training, practice/exercise, and reference materials that we encourage you to get to know via taking the training, via practice, and by exploring the <a href="scc-ares-races.org">scc-ares-races.org</a> website. This material is already known, available in advance, and you just need to maintain familiarity with it. However, when you participate in a new event or are dispatched to a serving agency for mutual aid, instructions and details will likely be new and require some patience.

At a new event, time and patience is needed to thoroughly review instructions and note all the details

## Mobilization and Pre-Set Up

<u>Mobilization</u> includes the time to pack up your vehicle, travel to and assignment, and arrive at the assigned event and check into the local Staging process. <u>Pre-Set Up</u> includes the activities required after being processed through the local staging process and receiving your position location assignment. If you are bringing your own equipment this includes moving your equipment from your vehicle to your assigned position location.

#### Mobilization

You are getting ready for being a deployed as a packet operator:

- A known event that you have signed up for as a participant (SCC exercise or public service event, etc.) that is scheduled in the "near" future
- A real-word event has happened, <u>you have been released from your city</u> and you are ready and available as a packet operator for assignment
- You are simply practicing for either of the above two scenarios (recommended on a periodic basis)

Be prepared for deployment and for packing up your vehicle:

	Get	out your checklist created above in "Maintaining and Building Experience and Practice"
		emble all the equipment in your own hot-staging area – check that everything is there. Make sure you can
Ш	set up your equipment from dis-assembled to "ready for Check-In" in the time frame allocated for your	
		ended assignment.
		your computer/laptop/pad/surface running Outpost – make sure you are on the latest version of Outpost
	and	/or latest version of OS, etc. Make sure your batteries hold a charge for full operation for a least an hour.
П	Dov	vnload / refresh any BBS notices prior to departing home: XSCPERM, XSCEVENT, any city notices.
ш	NO	ΓE: be prepared to know how to configure Outpost for XSCEVENT and City notices before leaving home.
Prepare Outpost for a new event. Follow the steps in "Archiving event documentation" section in the		pare Outpost for a new event. Follow the steps in "Archiving event documentation" section in the Packet
	Operators Type III Part B training course. Suggested steps:	
		Select your SCC Notices folder then <b>Export &gt; File</b> , then "This Folder" and save to a separate file
		Export > File then "All Folders" and backup all your folders (you can import these back later)
		Delete all Outpost messages: File > Delete All Messages
		Restore your SCC Notices folder: File > Import and enter the name of your separate file used above
	Ren	ninder: make sure any radio/TNC batteries you need are completely charged, tested (they haven't worn
	out). Make sure these batteries hold a charge for a least an hour – longer is preferred but not required.	
	Pac	k your vehicle and check things off as you load them on your checklist
	Don	I't leave anything behind at your home – they may not have replacements at your assignment.

#### Pre-Set Up

If you are bringing your own equipment, Pre-Set Up is the time needed to move your equipment to your assigned position location and be ready to start Set Up. If you are using local equipment that is packed up (i.e., packet station-in-a-box) this is the time to locate the box(es) and identify all equipment: radio, TNC, computer, cables, antenna, coax cables, etc. before beginning to connect the equipment together. If you are using a local packet station, this is the time to find your position and identify familiarize yourself with all the equipment required for the position.

#### **Know Your Set Up Time**

Set Up is the time to assemble, connect, power, etc. your equipment prior to being ready to Check-In to the packet net. This includes: 1) setting up your station including all safety precautions, 2) configuring Outpost, 3) refreshing any XSC and city notices, and 4) verifying you can send packet messages to yourself with the assigned BBS. We recommend trying to complete your Set Up within the following times:

Operator Type – equipment (setup type)	Time for Set Up, verify, download any XSCEVENT or City Notices (max minutes) from assignment start time **	Time to Check-In from End of Set Up (max)
P2 – own equipment (field station, w/pop-up)	30	
P2 / P3 – own equipment (assigned table space)	20	+5 minutes
P2 / P3 – station "in a box" (assigned table space)	20	דט ווווווענפט
P2 / P3 – existing station (already set up)	5 to 10	

**IMPORTANT**: the above times are suggestions as individual times will certainly vary. If you are scheduled for a real event or an exercise where an Operational Period is specified, you need to have your packet station set up in advance and be ready to "check in" to the packet net at the start of the Operational Period. Knowing how long it takes you to set up your equipment is required. If you are using someone else's equipment (e.g., an EOC's packet station) and you will the first to use it for the event, you need to arrive with sufficient lead time to attend all briefings and have the packet station ready to go at the start of the Operation Period.

#### XSCPERM, XSCEVENT, and City Notices

** "Set-up, Verify, and download any XSCEVENT and City Notices" should include:	
	Setting / verifying your FCC call sign
	Setting / verifying your assigned Tactical call sign and message ID prefix (Setup -> Station ID)
	Setting / verifying your assigned primary BBS (Setup -> BBS) and corresponding transmit radio frequency
	Setting / verifying your TNC and Com Port parameters (Setup -> Interface)
	Setting / verifying Outpost "Next Message" number (Tools -> Report Settings -> Variables)
П	Setting / verifying Outpost BBS retrieving commands for XSCPERM, XSCEVENT, and city notices. Either
	check/download all city notices or the one for your specific assignment; e.g. ALLXSC versus XND@XSC
	Suggestion: setup an Address Book entry with fully specified recipient, e.g. XNDEOC@w1xsc.ampr.org
When you send your Check-In, verify that it was received before moving to Operation:	
voncii y	ou send your enest in, verny that it was received senore moving to operation.
	Send your Check-In message
	Confirm your Check-In message has been received by the DELIVERED receipt, if not troubleshoot

# Operation "flying the packet station"

# **Normal Processing**

You are	processing 3 <sup>rd</sup> Party Messages (mostly PacketItForm and some plain text messages) and Operator-to-Operator
messag	es, e.g., check-in, check-out, health and welfare, and other non-3 <sup>rd</sup> Party messages. Prepare for the following:
	Send messages following county message handling procedures. If you are unclear about Message Handling or
	ICS TO: addresses refer to the Recommended Radio Routing "cheat" sheet.
	You are always sorting messages handed to you by Handling Order and Date/Time. Immediate messages must
	interrupt any lower order messages in progress, all <u>Priority</u> messages should be sent before <u>Routine</u> messages.
	More details on Immediate message handling are below.
	Receive and print messages. Deliver to the appropriate person (runner, supervisor, directly to ICS position)
	Know how to resend messages in Outpost. See the <u>Packet Operations Type III Part B</u> update for 2021.
	Know the differences between the "P", "M", and "R" packet message ID suffixes and when to use them.
	Maintain a separate ICS-309 for each net as well as if you are passing packet message without Outpost.
	You are a FAX machine. Unless changed and initialed by the message creator, send all typos exactly as is in the
ш	message – do not "auto-correct" spelling.
	If you find that the Situation Severity is not filled in, e.g. on an old SCC form and the Handling Order is, simply
	use the same Severity level as the Handling order level; If "Immediate" then "Emergency", etc.
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	liate Message Handling Reminders
If you a	re handed any Immediate message(s) you need to do the following for packet ASAP:
Ī	Interrupt any lower order messaging creation currently in progress. (if needed hit SAVE and go back and
	edit/send the message later). If you are already typing in an Immediate finish it. Then sort any Immediate in-
ш	hand messages by date/time.
	Create the Immediate message/form and enter all information as quickly as possible (without making any
	additional typos). Enter/finish all Immediate messages you have in your hands now.
П	Let your supervisor know (if available) that each Immediate message is in progress to each < recipient>
	Perform a "SEND Only" in Outpost and send all queued messages. (Actions -> Send Only)
	While the "SEND Only" is in progress or just completed, your supervisor should contact the recipient(s) via a
	no-delay voice method (e.g. Command net, phone, etc.) and let them know they need to retrieve an
	Immediate message from their BBS. If you have no supervisor, make the no-delay voice contact yourself.
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Confirm that the Immediate message was delivered by the intended receipt (e.g. DELIVERED receipt is

correct). If you have a supervisor, let them know the Immediate Message was Delivered.

## Close Down, Archiving, and Tear Down

You will need to close down your packet station at some point. Do so after receiving direction/permission from your supervisor or other management.

Note: the Archiving steps below are new to the <u>Packet Operations Type III Part B</u> course this year. They are here as a reminder of the new procedures for making a packet station ready for the next use.

Close	Down
	Contact your supervisor / manager and request to close down your packet station
	When ready, send a proper Check-Out message for your tactical assignment
	Start closing your paperwork – except your packet ICS-309
	Confirm that the Check-Out message was delivered (e.g. DELIVERED receipt is correct)
	Process any other additional messages you may have received while waiting for the DELIVERED confirmation.
	Finalize your ICS-309 for the packet station, it should include the DELIVERED receipt for the Check-Out as well as any additional messages you needed to process after Check-Out, including DELIVERED receipts.
Archiv	ing
	Create a printable message listing for this event using Outpost <b>File &gt; Save All</b> . Save to a file on your computer. [Eval check item]
	Create a <u>message archive</u> using Outpost <b>File &gt; Export &gt; All Folders</b> . Save to a file on your computer. [Eval check item]
Tear D	Reset Outpost for the next event  STOP – do not proceed until you have created the message archive in the previous step.  STOP – do not proceed until you have permission from the Packet Manager. (they may have other instructions for you).  Upon permission to continue with the reset:  Archive the SCC Notices folder using File > Export > This Folder. Save to a file on your computer.  Delete all messages using Outpost File > Delete All Messages. Answer "Yes" at the prompt.  Import the SCC Notices folder using File > Import from your saved file. Verify and/or move as needed in to a custom folder "SCC Notices"  If requested by the Supervisor, copy the above files unto your's or their USB thumb drive.  Town  If you are leaving an existing station, follow the supervisor or position binder instructions for close down.  For your own equipment or station-in-a-box, tear down and pack up in less time than it took you to set up.
	your own experience with this document.  I have read and check-ed off all items.  document>
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