Outpost Packet Message Manager

An Enabler for Packet Radio Emergency Communications

EMCOMMWEST 2006 6 May 2006

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Topics

Outpost Genesis

- **Outpost Evolution**
- **Enabling Policies**
- **Supporting the Mission**
- **Futures**



The Situation...

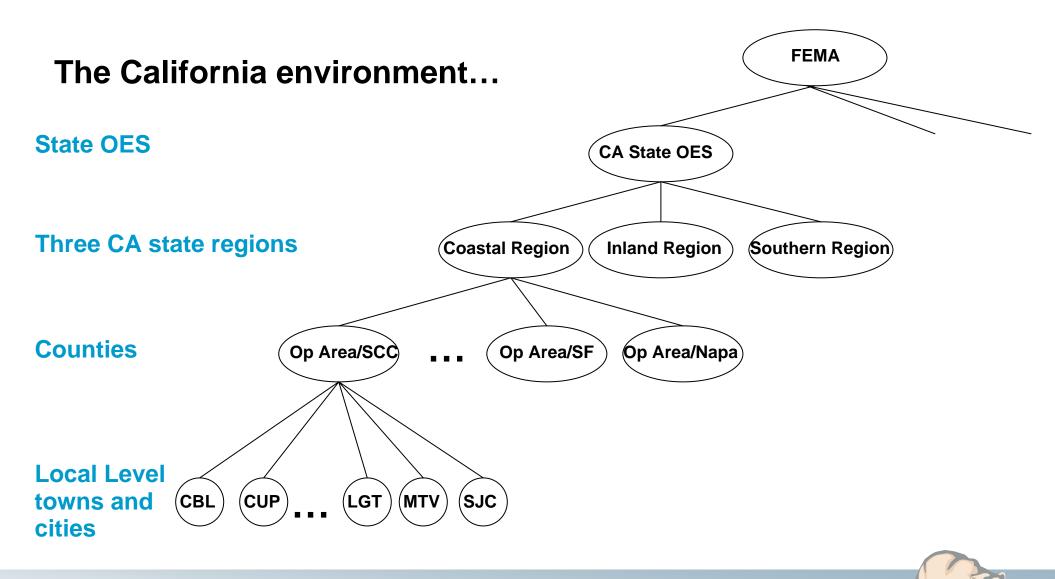
- Santa Clara County Operational Area uses packet messaging as a backup to California's internet-based Response Information Management System (RIMS) for collecting city status.
- For Cupertino ARES (CARES), we have very little packet expertise because...
 - the TNC/BBS command learning curve is too great,
 - the frequency of use (drills or hobby) is too infrequent, and
 - the interest in packet radio by CARES members is too low
- Other cities within the county expressed the same situation.



Overall Design Goals...

- 1. Hide the native packet environment complexity; shorten the learning curve
- 2. Provide an MS Windows-based packet messaging client
- 3. Automate the packet message handling environment
- 4. Create a program that behaves like your work or home email client... ...create, send, receive, read, delete, reply to, or forward messages
- 5. Support the response efforts and requirements of our local municipalities and served agencies

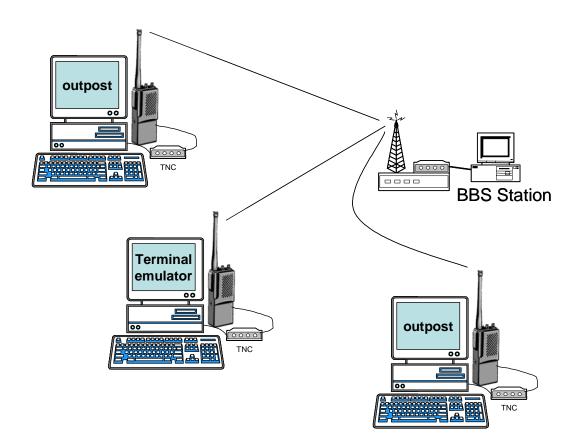




Environment

Co-exist within a packet messaging network.

Automate the manual things we do today to send and receive packet messages.





What is Outpost?

General Outpost Features

- Message Management
 - Multiple message folders
 - Supports the three primary message types: Private, NTS, and Bulletins
 - Text Formatting in a free-form message window
 - NTS Message Maker with automated ARL message support
 - On-line report builder using report templates
 - Supports Urgent message, Delivery and Read Receipts
- Send/Receive Session Management
 - Supports Serial, AGWPE, and Telnet interfacing to a BBS
 - Automatically controls the sequence for initializing the selected interface, connecting to, and sending messages to and retrieving messages from the BBS
- Configurations and Setups
 - BBS, TNC, and Interfaces manages a list of BBSs & Interfaces
 - Message Retrieval choose the message types ti be retrieved
 - Send/Receive automation 3 ways for automatically initiating BBS sessions



What is Outpost?

8	Outpo	st TNC	Message Manager		
Fil	e Edit	Setup	Tools Actions Help		
		Nev	W Open Delete Print Send/Receive		
I	Folder	List	In Tray		
	In Tr	ay	U Type From To BBS Subject Date/Time B SYSOP ALLEOC W6XS EMERGENCY BBS OPER 02/16/04 16:54 B N6V/H ALL K6FB-2 SUNNYVALE HAM FLEAMAR 08/13/04 12:39 B KN6PE CARES K6FB-2 N95 Mask Purchase 12/21/04 11:41	Size 51 2770 329	
I	Out T	ray	B KN6PE CARES K6FB-2 N95 Mask Purchase 12/21/04 11:41 !! XSCEDC CUPEO W6XS Request EOC Status 12/21/04 23:49 KN6PE NEWUSR K6FB-2 Welcome to Outpost 1.3 None KN6PE NEWUSR K6FB-2 Weat's New in Outpost 1.3 None	249 1443 4108	
			🔐 N95 Mask Purchase - Packet Message		
	Ser Msg		File Edit Actions Help		
			Print Reply Forward Delete Close Expire		
	Archi	ve	Bulletin Message		
			Bbs: K6FB-2 Sent: 1	2/21/04 11	:41
	Dral Msg		From: KN6PE		
			To: CARES		
I	Delet Msg		Subject: N95 Mask Purchase		
			MSG#43 12/21/04 11:41 FROM KN6PE TO CARES		<u> </u>
a	Items, 38		SUBJECT: N95 Mask Purchase PATH: K6FB		
			FRIM. ROLD		
			All Packet-enabled CARES members,		
			Those CARES members interested in purchasing N95 masks as describ	_	
			Marsha, please let me know. We will be doing a bulk purchase at per mask for CARES members.	a cost	of \$1
			regards,		
	Outpos		Jim KN6PE		
			•		T

What is Outpost?

Mission

The Outpost *Packet Message Manager* program supports the Emergency Communications Packet User community with a contemporary amateur radio packet messaging client that allows users to focus on the message, and not the medium.



Outpost Evolution

History

- Commenced Development...
- v0.95; Beta Release...
- v1.0; First Release...
- v1.1; enhanced look and feel...
- v1.2; on-line reports, MSYS support...
- v1.3; collaborative messaging...
- v2.0; AGWPE and telnet support...
- v2.0.4; NTS extensions, other enhancements... February 2006

November 2002 May 2003 October 2003 March 2004 May 2004 December 2004 June 2005



Contributive design

Outpost Evolution

• v0.95; First Beta Release, May 2003

- Jerry KF6GAC... need BBS access through a digipeater
- Jim KB9MMC... Different TNC support
- v1.0; First Release (+21 enhancements), October 2003
- v1.1; enhanced look and feel (23 enhancements), March 2004
 - Don K9DEB... requested a report builder
 - George W9GWP... add MSYS BBS support, BBS Message Filtering
 - William VE3WPJ... automatically print message on receipt
- v1.2; on-line reports, MSYS support (+13 enhancements), May 2004
 - Larry KE6AGJ... add urgent message flag
 - George W9GWP... add Hierarchical Destination address support
 - Art N9ZZK... add AEA232 PBBS support
- v1.3; collaborative messaging (+26 enhancements), December 2004
 - Debbee KF6BKR... Single keystroke controls
 - Bill VE7QC... add Telnet support
 - Larry KE6AJG... send a Read Receipt regardless of what is requested
 - Art N9ZZK... do not display logon form to accommodate automatic logon
- v2.0; AGWPE and telnet support (+21 enhancements), June 2005
- v2.0.4; NTS extensions, other enhancements (14 enhancements), February 2006



Features tend to align to...

Outpost Evolution

Environment:	Definition: the situation in which we find ourselves.			
	Each situation is different how do we adapt the tools we use to our environments?			
Policy:	Definition: a definite course or method of action.			
	In a community of packet users, what policies do we adopt to ensure order, consistency, and efficiency in what we do?			
Mission:	Definition: the task with which we are charged.			
	How do we support our served agencies in their efforts to minimize loss of life and property, and speed the recovery?			



Our Environmental situation

- What BBSs do we use to pass messages among ourselves?
- How far away is the BBS?
- What interface methods can I use to access the BBS?
- What is my computing environment?

Elements of a packet operating policy

- 1. All stations will identify with a tactical call sign
- 2. All messages are sent as private messages
- 3. All messages are uniquely identified
- 4. All messages are as short as possible
- 5. All stations will poll the BBS on a periodic basis
- 6. All stations will poll for specific message types
- 7. All message traffic becomes part of the official event documentation package



Mission support

- Understanding the mission and purpose of the agencies we serve.
- Ensure our mission supports our served agencies.
- What our served agencies need from us...
 - •Message traffic
 - Documentation
 - •Audit trail



Policy #1: Tactical Calls

Implementation #1

Definition: a call sign that identifies a <u>tactical</u> <u>location</u>; is <u>operator-neutral</u> allowing the operators to change, without having the assignment name change.

Implementation #1:

Supports modified AA4RE BBS; connect with FCC call, prompts for a Tactical Call

In Santa Clara County, cities are assigned Tactical Calls like these:

- CUPEOC City of Cupertino
- MTVEOC City Mountain View
- SJCEOC City of San Jose
- XSCEOC Santa Clara County EOC

Works great!... but relies on a very old HW and OS platform.

🚰 Select a BBS			
BBS Name BBS Pron	n <u>pts</u>] BBS Commands Me	essage Formatting	1
Prompts			
Command:	W6SJC >	🔲 Tactical C	all required
Tactical Call:			
Subj Prompt:			
Msg Prompt:			
Advanced			
Unique text displaye sends a message:	d by the BBS after Outpost W6SJC >		
Unique text displaye receives a message:	d by the BBS after Outpost W6SJC >		
	,		Default
	ОК	Cancel	Apply



Policy #1: Tactical Calls Implementation #2 Planned for v2.0.6

Definition: a call sign that identifies a <u>tactical</u> <u>location</u>; is <u>operator-neutral</u> allowing the operators to change, without having the assignment name change.

Implementation #2:

No readily available and supported BBS offers native support for tactical calls.

The v2.0.6 approach supports most BBSs; connect with the Tactical Call; Outpost manages the legal identifier.

For the Santa Clara County Hospital System, hospitals are assigned Tactical Calls such as:

- 1MVECH Mountain View El Camino Hospital
- 1PASMC Palo Alto Stanford Medical Center
- 1SJVMC San Jose Valley Medical Center
- 1SJGSH San Jose Good Samaritan Hospital

, Station Identificatio	n			
Identification				
Land				
Legal				
User Call Sign:	KN6PE			
User Name:	Jim			
Tactical —				
Use Tactical C	Call for all BBS interac	tion (EMERG	ENCY MODE	Ì
Tactical Call Sign:	1CUEOC			
Tactical TX Text:	Cupertino OES		_	
r dottodi fra fione.	[Cupertino OES			
	0	к	Cancel	Apply



Policy #1: Tactical Calls

Implementation #2

Definition: a call sign that identifies a <u>tactical</u> <u>location</u>; is <u>operator-neutral</u> allowing the operators to change, without having the assignment name change.

Implementation #2:

Is it legal?

- AX.25 extended address field contains source and destination call sign
- Outpost uses the TNC's "my call" command to set the Tactical Call as the station identifier.
- The selected Tactical Call needs to be a sufficiently valid call sign to "fool" the BBS's call sign checking logic
- Outpost sends a "Legal Identifier String" that satisfies FCC Part 97.119

```
1CUEOC>W6SJC-1: <<C>>:
W6SJC-1>1CUEOC: <<UA>>:
W6SJC-1>1CUEOC: <<100>>:
[FBB-7.04j-AB1FHMRX$]
 Hello Jim.
Welcome to The San Jose EOC Mailbox
 W6SJC >
 1CUEOC>W6SJC-1: <<I01>>:
LM
W6SJC-1>1CUEOC: <<I11>>:
*** : Nothing found
*** : TO Field Filter is set to:- [*]
W6SJC >
 1CUEOC>W6SJC-1: <<I12>>:
В
 W6SJC-1>1CUEOC: <<I22>>:
73 Jim,
 W6SJC-1>1CUEOC: <<D>>:
1CUEOC>W6SJC-1: <<I23>>:
StationID=KN6PE, TacCall=1CUEOC, Cupertino OES
 1CUEOC>W6SJC-1: <<I33>>:
1CUEOC>W6SJC-1: <<|43>>:
1CUEOC>W6SJC-1: <<UA>>:
```



Policy #2: Send Private Messages

Policy: Private messages are addressed to a specific station and retrievable only by that station. Private messages should be sent when the message is intended for one other station.

- A Private message policy contributes to lower channel traffic by ensuring only the intended station retrieves the message.
- Option to set the default message type to either private or public.
- Option can be overridden at message create time.

🖌 Message Settings
New Messages Replies/Forwards Tracking Deleting
Set default to PRIVATE Set default to BULLETIN
Call Sign or Tactical Call)
Add Message Number to Subject Line
OK Cancel Apply

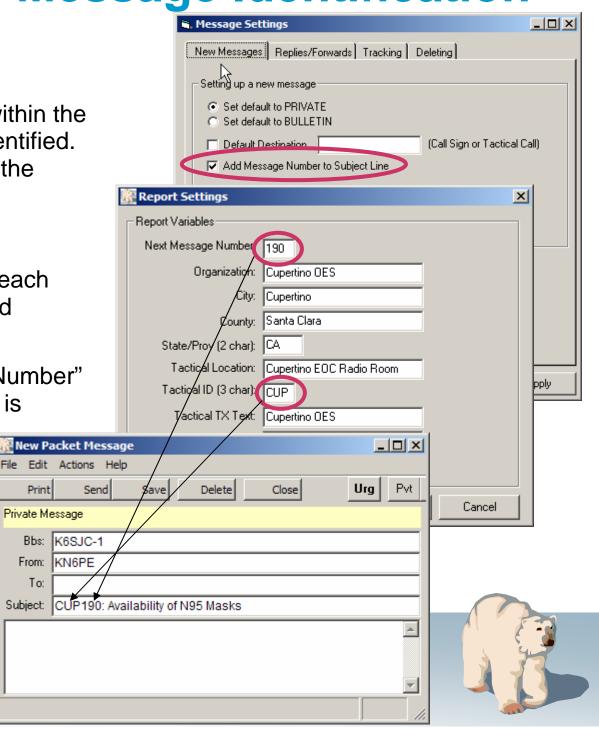


Policy #3: Unique Message Identification

To:

Policy: Each packet message sent within the operational area must be uniquely identified. Replies to messages must reference the message identifier.

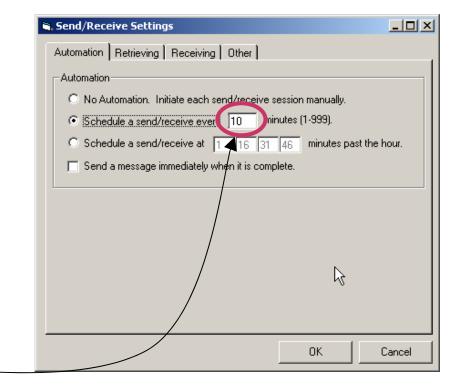
- Unique identifiers are generated by each Outpost station based on the entered **Report Settings**
- When enabled, the next "Message Number" or "Tactical_ID + Message Number" is placed in the subject line.
- Subject line can be appended to or overwritten at message create time.



Policy #5: BBS polling period

Policy: Each packet station should poll the BBS at a rate sufficient for timely message retrieval without creating excessive channel congestion.

- *Example:* Santa Clara County has about 15 stations and 3 BBS access frequencies.
- A periodic polling every "X" minutes is established and allows for unattended operation.
- Consideration should be given to...
 - the number of stations requiring access to the BBS on a given frequency, and
 - the phase of the emergency (for instance: heavy traffic: longer period... light traffic, shorter period).

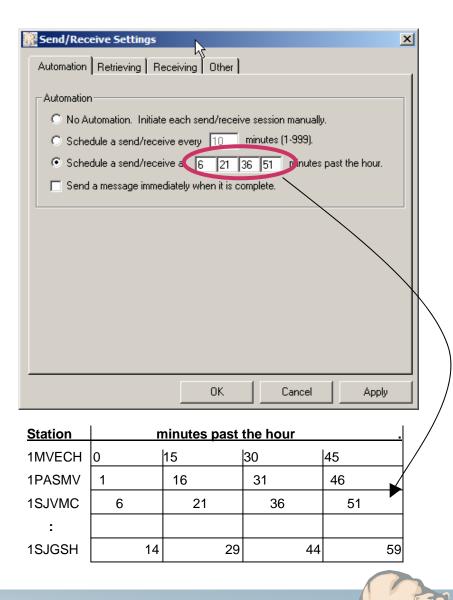




Policy #5: BBS polling period

Policy: Each packet station should poll the BBS at a rate sufficient for timely message retrieval without creating excessive channel congestion.

- *Example:* Santa Clara County Hospital has 14 regional hospitals and 1 BBS access frequency.
- One or more specific polling slots (minutes within an hour) are assigned to each hospital packet station.
- Considerations...
 - all PC clocks need to be set to the same time (voice net coordination).
 - Quality of the connection (extent of retries)



Policy #6: Poll for message types

Policy: All stations will poll for specific message types. This approach also reduces channel congestion.

- Select the message types that will be sent within your operational area
 - Private messages: between 2 stations
 - NTS messages: standard ARRL protocol
 - Bulletins: all broadcast messages
 - Selected Bulletins: specific messages found on a public bulletin board

Send/Receive Settings	×
Automation Retrieving Receiving Other	
Retrieve these Messages	
Retrieve Private Messages.	
Retrieve NTS Messages.	
Retrieve New Bulletins.	
Retrieve Selected Bulletins.	
NTS QST ALLEOC	
Filter #1 Filter #2 Filter #3 Filter #4 Filter #5	
Filter #6 Filter #7 Filter #8 Filter #9 Filter #10	
Skip (do not retrieve) Bulletins I sent to the BBS.	
OK Cancel Apply	



Policy #7: Documentation

Policy: All message traffic becomes part of the official event documentation package.

- Message archiving...
 - Save All: writes a single text file of all messages, with embedded Form Feeds
 - Archive: writes one or more folders to an Outpost archive file. Can be re-imported / later if required
- Message audit report (ER #416)

🔐 Outpost Packet Message	e Manager			
File Edit Setup Tools Act	ions Help			
New Message Ctrl+N Save As Ctrl+S	en	Delete	F	Print
Save All	_			
Export	All Fold	ers	BBS	Subject
Import	This Fo	lder	KN6PE-1	Drill Acti
Delete All Messages	N6PE	KN6PE	KN6PE-1	RT tesT
Change Folder	E6AFE N6PE	KN6PE CARES	K6FB-2 KN6PE-1	XCZ146 Drill Res
Print Ctrl+P	N6PE E6AFE	95825 KN6PE@.		QTC 1 F RE: XC2
Print Setup.	A6WK	ALL	K6FB-2	Welcor
Exit	AGWK AGWK 1MTECH 1MTECH	ALL ALL KN6PE KN6PE	K6FB-2 K6FB-2 KN6PE-5 KN6PE-5	>>> how Net Pro ECH12 ECH128



Mission support

- Understanding the mission and purpose of the agencies we serve.
- Ensure our mission aligns with our served agencies.
- What our served agencies need from us...
 - •Message traffic
 - Documentation
 - •Audit trail



Requirement: Originate messages based on the content and format of our served agencies.

- **Direct entry** with cntl-Tab formatting
- Cut-and-paste from other apps
- NTS Message Maker
- •On-line report builder
- Import text from a file

🎆 New Packet Messag	e			
<u>File E</u> dit <u>A</u> ctions <u>H</u> elp)			
Print Send	Save Close	Urg Pvt	Bul NTS	
Private Message; Deliver	y Receipt Requested			
Bbs: W6XSC-1				
From: CUPEOC				
To: XSCEOC				
Subject: Status of Cup	pertino EOC			
The following ope Director Emergenc Planning/Intel Se Logistics Section Operations Sectio Finance Section All phone numbers Jim 0 KN6PE	y Services Da ction Ba n Ba T	ave Knapp ob Knight en Smith ill Wright rudy Collins	777-1234 777-2345 777-3456 777-4567	y



File

9 10

Requirement: Originate message based on the content and format of our served agencies.

- Direct entry (with cntl-Tab formatting)
- Cut-and-paste from other apps Ne
- NTS Message Maker
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	Microsoft Excel - Shelter Requirements.xls													
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		3	2 bl	lankets			45 e	а		15		18-Mar	18:00)
		4	3 w	ater, 12 d	oz bottles	:	200 b	ottles		100		19-Mar	12:00)
		5	4 F	irst Aid k	its		3 k	its		12		ASAP		
		6	5 Ti	oilet pape	er		50 ro	olls		250		19-Mar	12:00	0
20		7	6 to	oth brush	hes		10 e	а		50		ASAP		
	acket Mes	sage								_ 0	l xI	ASAP		
	Actions			_	_	_						19-Mar	18:00	
1						Bul NTS	1					19-Mar	18:00	
Print	Send	Save	Close		rg Pvt							18-Mar	18:00	2
Urgent, P	rivate Mes:	sage												
Bbs:	W6XSC-1	1												
From:	CUPEOC	>												
To:	XSCEOC	:												
Subject:	Shelter N	laterial Req	uirements	в										
Please	send th	e followi	.ng mate	rial to d	out shelte	er:					-			
Item Nu	umber	Descrip	tion	On Hand	1 Units	Qty nee	ded	Re	q Date					
Req Tin						10.00								
1 2	cots blanke	30 ta	ea 45	25 ea	18-Mar 15	18:00 18-Mar	18:0	0						
3		12 oz bo		200	bottles		19-M	-	:00					
4 5]	,	Aid kits	3	kits	12	ASAP								
		; paper	50	rolls	250	19-Mar	12:0	0						
6		brushes	10	ea	50	ASAP								2
7 8	tooth note p	-	5 0	ea ea	55 25	ASAP 19-Mar	18:0	0						
9	pencil		u ea	25	25 19-Mar	19-Mar 18:00	10:0	0				1	4	
μo	MRE	10		300	18-Mar	18:00							133	
											-			

Requirement: Originate messages based on the content and format of our served agencies.

- Direct entry (with cntl-Tab formatting)
- Cut-and-paste from other apps
- NTS Message Maker
 - Create...
- •On-line report builder
- Import text from a file

ITS Message Maker	X
File Edit	
ARL Msg Check Save Clear Msg Cance	el
Preamble	Destination Address
Msg No: 183	Name: Dave Larson
Precedence: R (R, W, P, E)	Call Sign:
Handling Instr: HX	Address: 5304 East Ranch Road
Station of Origin: KN6PE	City: SACRAMENTO
ARL Message:	State/Prov: CA Zip/Postal: 95825
Check:	Phone No: 916 555 1212
Place of Origin: Cupertino, CA	
Time of Origin: 22:13	
Date of Origin: Feb 06	
_ Message	
Cannot attend the meeting this week. A advise the repeater committee that the	
└────────────────────────────────────	
Jim KN6PE	
Ready for NTS message entry	



Requirement: Originate messages based on the content and format of our served agencies.

- Direct entry (with cntl-Tab formatting)
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 - Create... Check...
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RTS Message Maker		×
File Edit		
ARL Msg Check Save Clear Msg Cano		
Preamble	Destination.	Address
Msg No: 183	Name:	Dave Larson
Precedence: R (R, W, P, E)	Call Sign:	
Handling Instr: HX	Address:	5304 East Ranch Road
Station of Origin: KN6PE	City:	SACRAMENTO
ARL Message:	State/Prov:	CA Zip/Postal: 95825
Check: 23	Phone No:	916 555 1212
Place of Origin: Cupertino, CA		
Time of Origin: 22:13		
Date of Origin: Feb 06		
- Message		
Cannot attend the meeting this		
week X All airports are closed X Please advise the		
repeater committee that the project		
Signature		
Jim KN6PE		
Mesage looks good!		



Requirement: Originate messages based on the content and format of our served agencies.

- Direct entry (with cntl-Tab formatting)
- Cut-and-paste from other apps me
- NTS Message Maker
 - Create... Check... Save
- •On-line report builder
- Import text from a file

	🗱 NTS Message Maker			X
	File Edit			
	ARL Msg Check Save Dear Msg Can	cel		
es	Preamble	Destination /	\ddress	
of	Msg No: 183	Name:	Dave Larson	
	Precedence: R (R, W, P, E)	Call Sign:		
	Handling Instr: HX	Address:	5304 East Ranc	h Road
	Station of Origin: KN6PE	City:	SACRAMENTO	
	ARL Message:	State/Prov:	, CA Zip/Postal	: 95825
	Check: 23	Phone No:		1212
	Place of Origin: Cupertino, CA			
	Time of Origin: 22:13			
New Packet				
File Edit Actio				
Print	Send Save Delete Close Urg	Pvt Bul NTS	2	
NTS Message				
Bbs: KN6F From: KN6F				
	-E IS@NTSCA			
	1 R SACRAMENTO CA (916-555)			
	IGPE 23 Cupertino, CA 22:13 Feb 06			
BT Dave Larson				
5304 East F	lanch Road			
SACRAMENTO, (916)555-12				
BT				
	and the meeting this			
	l airports are Please advise the			
	mmittee that the project			
is almost o	complete.			4
BT Jim KN6PE				
			///	

Requirement: Originate messages based on the content and format of our served agencies.

Implementation:

- Direct entry (with cntl-Tab formatting)
- Cut-and-paste from other apps
- •NTS Message Maker (ARL support)

Date of Origin

Message ARL SIXTY

Signature

Ready for NTS me

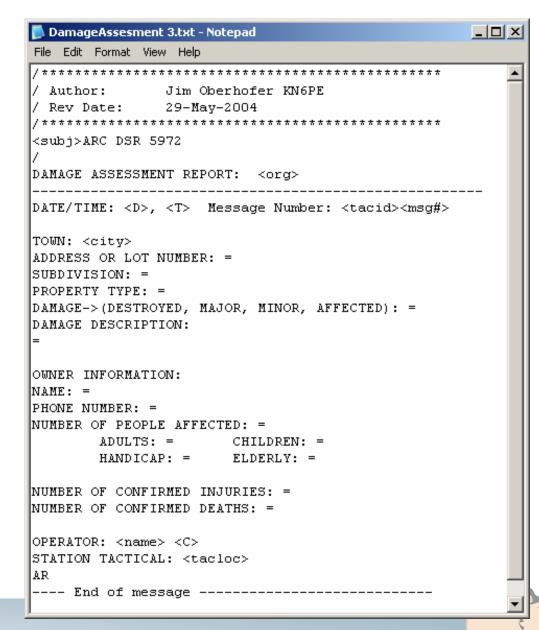
- •On-line report builder
- Import text from a file

	File Edit	er		X
ages	ARL Msg Check	Save Clear Msg	Cancel	
at of			age Wizard	
	Precedence: R		ROUTINE	Message Type
	Handling Instr. HX	ARL Numl	Jointine	
	1	N6PE Arriving <	Location> on <flight no="" tr<br="">Plaase arrange to meet me</flight>	ain Next
	ARL Message:		r indise dirange to meet me	Previous
	Check:			
	1	upertino, CA		
		1:17		
S	Date of Origin: Fe	eb 08	, Appl	y Cancel
support)	ARL Message Information	n /	×	
support)	Enter the information for "Loc	ation"	ОК	<u> </u>
			Cancel	
	N			
	San Jose			
41.17	/			
Feb 08	/			
	/			
FIVE San Jose H	HA 44 X		<u> </u>	
				4
ssage entry				

Outpost Packet Me

Requirement: Originate messages based on the content and format of our served agencies.

- Direct entry (with cntl-Tab formatting)
- Cut-and-paste from other apps
- NTS Message Maker
- •On-line report builder
 - Reports...
- Import text from a file



Requirement: Originate messages based on the content and format of our served agencies.

Implementation:

- Direct entry (with cntl-Tab formatting)
- Cut-and-paste from other apps
- NTS Message Maker
- •On-line report builder
 - Reports... Tags...
- Import text from a file

<u> </u>	(5/21/04). (21-May-2004) (22:45) per; from Report Settings	
h:mm /lessage Numb	(22:45)	
lessage Numb	(/	
<u> </u>	per; from Report Settings	
Call, as entered		
Call, as entered at the Station ID form		
Name, as entered at the Station ID form		
BBS name; current BBS		
Places "text" on subject line		
Organization; from Report Settings		
City name; from Report Settings		
	rom Report Settings	
·	211	
Organization:	CARES	
City:	Cupertino	
-	Santa Clara County	
· · ·		
	Cupertino DES	
Text Variable #2:		
	lame, as enter BS name; cur laces "text" or Organization; fr City name; from County name; from Report Settings Report Variables Next Message Number: Organization: City: County	

Cancel

0K

Requirement: Originate messages based on the content and format of our served agencies.

- Direct entry (with cntl-Tab formatting)
- Cut-and-paste from other apps
- NTS Message Maker
- •On-line report builder
 - Reports... Tags... Processing
- Import text from a file

New Packet Message	_ 🗆 🗵				
File Edit Actions Help					
Print Send Save Close Urg Pvt Bul NTS					
Private Message					
Bbs: W6XSC-1					
From: CUPEOC					
To:					
Subject: ARC DSR 5972					
DAMAGE ASSESSMENT REPORT: CARES					
DATE/TIME: 12/26/04, 11:40 Message Number: CMV211 TOWN: Cupertino ADDRESS OR LOT NUMBER: SUBDIVISION: = PROPERTY TYPE: = DAMAGE->(DESTROYED, MAJOR, MINOR, AFFECTED): = DAMAGE DESCRIPTION: = OWNER INFORMATION: NAME: =					
PHONE NUMBER: =					



Mission support: Documentation

 <i>Requirement:</i> All packet message traffic must be submitted to the EOC for disposition. <i>Implementation:</i> Incoming message distribution 	Automation Retrieving Receiving Other When Receiving Messages Play this sound on arrival: sound38.wav Browse Test Print messages to the HP DeskJet 710C printed Keep messages on BBS; do not delete after retrieving	
 Outgoing message printing record keeping, specify # copies (ER #521) 		

Send/Receive Settings

ΟK

Cancel



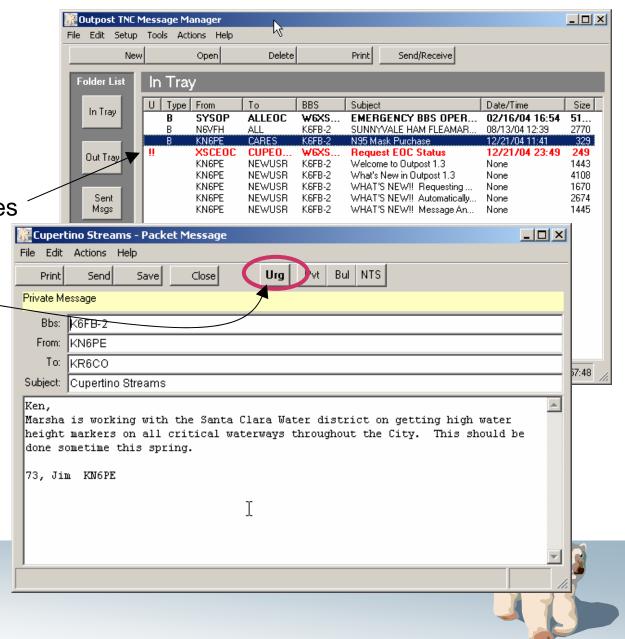
Apply

X

Mission support: Message Alerts

Requirement: Prioritize traffic according to the needs of our served agencies. Identify priority traffic on its arrival.

- Identify incoming urgent messages
- Set message priorities for outgoing messages _____



Users are critical to Outpost's success

- 1. Find and report bugs
- 2. Best source of enhancements
- 3. Come up with creative ideas on using it
 - Windows '95
 - zip files!



What's Next

V2.0.6, Summer 2006

- Enhanced Packet Network Support
 - KA-Node, NET/ROM routing
- Generic Tactical Calls
- V2.1
- Attachments
- Winlink client support



For more information

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Visit the Outpost website... http://www.CupertinoARES.org/projects/outpost

Or, Google ... outpost packet



