

# **G1 White Papers**

A Simplified G1 Programming Tutorial

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Unication USA, Inc. also hosts periodic Webinars that cover the basics of G1 Programming. To view past Webinars via our YouTube channel click on the picture below:



Unication USA, Inc.

# **G1 PPS QUICK START GUIDE**

This section will provide an overview of loading and using the G1 PPS.

#### I. Loading the Pager Programming Software (PPS)

- a. The G1 PPS is compatible with Windows XP, Windows 7 (32 and 64 bit) and Windows 8 operating system environments. If you do not have the programming CD that was included with your G1 Programmer purchase, you may download the PPS from our web site at <u>www.UnicationUSA.com</u>. Current PPS is available under the "Downloads" section.
- b. Place the PPS to your Desktop and open the PPS application. A step by step process will lead you through the installation.

#### II. Reading the G1 Pager

a. Place the G1 in the programmer and make sure the G1 Belt clip locks the pager securely into the programmer. Turn the G1 on and then launch the G1 PPS application.
 NOTE: It is important that the G1 programmer be connected to the computer BEFORE the PPS application is launched.





c. After clicking on "Login" the below screen is displayed. A PPS User's Guide is provided by clicking the top left hand tab. A more detailed installation process and description of G1 settings is provided than in this Quick Start Guide. With the G1 programmer connected click on the "PPS System Setting" tab.

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d. The below screen shows the "Com Port" the programmer is connected to. If no Com Port is shown in this field go to step i.



i. If no Com Port is shown in the field above you will have to go to the Device Manager to determine which Com Port has the G1 Driver. To access the Device Manager right click on the computer icon on the Desktop for Windows XP environments or for Windows 7 environments click on the Start icon (Windows 7), find Computer and then right click. Select Properties and find Device Manager. Click on it and you will see the below listing. Expand the Ports and look for the one labelled "Prolific USB-to-Serial Comm Port". Note its port number.



 Go back to paragraph d. and click on the pull down to determine if this port is displayed. If so, click on it and it will now be displayed in the Com Port field. Click on the Save tab.

# CLONING A MINITOR V .DAT FILE

The G1 PPS (Pager Programming Software) allows you to take a Minitor V dat file and create a representative cp file to be used by the G1. This document will describe the process to perform this translation.

#### 1. Gather the correct files

To perform this translation you will need the Minitor V dat file and the G1's default cp file for the band split desired. It is important to note that this translation only works for Minitor V pagers and not with previous models (Minitor 1-4).

#### 2. Launch the G1 PPS Application

a. After launching and logging into the G1 PPS, you will note on the left hand column "The Other Voice Pager Clone to G1" tab.



b. Click on this tab and you will be asked to select the default G1 cp file.

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c. Once selected, click on "Next".



d. Select the appropriate Minitor dat file by clicking on "Open Voice Pager File".



e. Find the Minitor V dat file to be translated and once found click on "Open". The translated G1 cp file will be displayed. The Minitor's settings that have been converted to G1 settings are highlighted in the color red (note the "Band Split" below).

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f. It is recommended that you verify all critical parameters to ensure no mistakes occurred in the translation process.

#### II. Finishing Up

Once all settings are verified it is suggested that you create Source and Channel Alias's. Also, if more frequencies (Minitor V is limited to 2) are desired, add them and assign the desired alias. Selector Knob positions 5-8 can be programmed for additional functionality.

# PROGRAMMING WAV FILES IN THE G1 VOICE PAGER

With device software RVV0114EN the G1 can now be configured to use customized wav files along with the standard and pleasing alert selections. In addition, wav files can be substituted for the standard voice prompts (Selective Call, Monitor, etc.).

Creating wav files and programming the G1 will be covered in the following sections.

#### I. Creating Compatible wav Files

The wav file format used by the G1 is 16 bit PCM Mono format. If your desired wav files are not in this format they can be converted using GoldWave, http://www.goldwave.com/, which is an audio editing application. See the below screen shots.



#### i. Step 1- Resample to 16000 Hz

ii. Step 2- Save File as PCM 16 bit, mono

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#### II. Programming the G1 with wav Files

Programming the G1 with wav files is a two (2) step process. Described in this section is the first step which is programming wav files in the G1. The second step is enabling these wav files when programming the G1 and this is covered in section III.

i. With the G1 connected to one's computer launch PPS (Pager Programming Software) version R03.07.01-R01. Read the G1 and click on the new tab labeled "Music Alert/Voice Prompt Programming". The screen shot below is displayed and click on "Yes".

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ii. After clicking on "Yes" the below screen is displayed. There are two sections; one for 16 Music Alerts and another for 64 Voice Prompts.

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iii. Select "Read Voice Pager" and below is what is preprogrammed as Voice Prompts.

 Now one can add optional wav file choices to either the Music Alerts or Voice Prompts lists by clicking on "Browse" to select the desired wav files stored on your computer. Below is an example where a wav file was added to the Music Alerts. One can listen to the selected wav file by clicking on the "Play File" and listening to it on the computer's speakers.

<u>NOTE:</u> the "Play Pager" feature does not work at this time since the new wav file has not been programmed in the G1.

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- V. Once all the wav file selections have been made you can click on "Write Pager".
   Programming the G1 may take a few minutes and once programming is completed the "Play Pager" feature will work and you can hear the new wav files played back on the G1.
- vi. Click on the "Program Pager with Read Pager Codeplug Data" tab to begin the final steps in programming the G1.

#### III. Enabling the wav Files in the G1

i. Music Alert Wav files can be assigned in Tab F as an "Alert Tone" and in the Zone settings of Tab H. Refer to the below two screen shots. Once assigned they can be played back clicking on "Play Pager".

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Control Marcado Mar	PPS Alexander Alexan	R03.07.01 - R01 Receiving Particle Ser - control of Avert Particle - Add Langth - Forward - Torre Matt Daration - S Torre Matt Daration - S Torre Matt Daration - S Torre Matt Daration - Social for Avert Latt Ext - Social for Avert Avert Avert Avert Avert Avert Avert Avert - Social for Avert -	For Castor For Castor	Control		Receiving Portfolio     Setting     Proport Receiving     Pro

ii. Voice Prompt wav files are assigned in Tab H in the new "Voice Prompt Index". With earlier version G1s, once the Function Mode was selected the associated Voice Prompt was automatic and could not be changed by the User. Now one has to choose the appropriate "Voice Prompt Index" setting for the desired Function Mode.



#### IV. Potential Errors

When programming the G1 with wav files the following has to be taken into consideration.

- i. When reprogramming a G1 the wav files have to set and programmed to the G1 <u>first</u> (refer to Section II above).
- Saving one's cp file and sending it to another associate using a different computer <u>will</u> <u>not</u> transfer the wav files. The other associate will have to build his Music Alert and Voice Prompt lists from scratch using wav files stored on their computer.
- iii. If in the process of programming wav files one loses the standard set of Voice Prompt wav files (i.e., Selective Call, Monitor, etc.) they are located on one's C Drive. Go to Program Files and then open the file named "G1 PPS R030701(R01)\_20140919".

# CONFIGURING THE G1 FOR TWO TONE CODING

### I. Overview

Two tone coding has been used in paging devices since the 1960s. It is a very simple, reliable, signaling method and it continues to be used in Public Safety and Industrial applications.

It consists of two (2) tones sent sequentially usually followed by a voice message. The pager decodes the tone pair, Tone A and B, and begins alerting shortly after decoding Tone B. Alerting continues for the duration of Tone B. The timing of Tone A and B will vary depending on the Paging System. For example, for Motorola Systems the timing is 1 second/3 seconds while for Fast Reach Systems it is 0.15 seconds/0.15 seconds.

Another method of tone signaling consists of sending a Single Tone for predetermined length of time. This Single Tone is more commonly referred to as "Long" Tone.

In the following sections I will review how to configure the G1 for different two tone codes and review the optional settings for each code.

#### II. Two Tone Capabilities of the G1

The G1 has eight (8) Tone Tables each consisting of twelve (12) Two Tone pairs and Four (4) Long Tones. Each Tone Table can be set for a different "Paging System" which defines the tone timing and the tone frequencies.

Paging System	2 T	one	Long Tone (sec)	
88 . /	Tone 1 (sec)	Tone 2 (sec)	8 (,	
Motorola	1	3	8	
GE	1	1.5	8	
Plectron	3	0.25	3	
Fast Plectron	0.75	0.25	3	
Reach	2	0.7	5	
Fast Reach	0.15	0.15	5	

#### The G1 supports the below Paging Systems.

The choice of which "Paging System" to select will depend on the tone frequencies and timing used in a specific application. By far the most common "Paging System" in use is Motorola.

As one can see by the above table, if the application supports Plectron, Fast Plectron, Reach or Fast Reach tone timing that the G1's alert duration, which depends on the Tone B duration, will be very short. There are settings in the G1 that will allow for a longer alert duration and this will be reviewed in a later section.

In the following paragraphs a review of Paging Systems and other Tone Table settings are provided.

#### a. Tone Tables

Under G1	PPS	R03.	06.28 F	PPS Moo	ner Francisco	e any query or service +817 303 8320 (JLA) +017 888 3424 (JLA) tales@unication.com	r, plaas	er contiact
1 million	A Internation	E Call ID	Capcodes Setting /	Tone Settin	g / Table 1			Call ID Capcodes
	Party Page	Tone 5	ystem Setting					Setting
FPS System Setting	B Configuration Switcy	• Time	Type		2Tone .	•		· Function Description
	D Call Storie Test Primpt Setting	• Pagin	o System		Motorola	•		D setting
	E MOC Contact Dook Eating	+ Tune S	eting					
	Callin	Call	Long Tone	Tone 1	Tone2	Source Prom	pt . A	
Program Pager	Capecodas Gatting	1	No.	33015	124.17	1000		
Controping File	Charmel	2	No	349	510.5	EMO		
Program Paget	Con Lating	3	140	0	0	None		
Contepting Date	Go Netuel Dian	4	Neo	0	0	None		
Other Write	hating	5	No	0	0	Fione		
Reger Clone to G1	Go Parantatar	6	No	0	o	tione		
		7	tio	0	0	tione	11	
	H Purfule	1	No	0	0	None		
		4 9	Neo	0	0	None		
	Detting	10	140	0	0	None		
	- Incorporation	11	No	0	0	None		
	J Table	12	Neo	0	0	None		
		12	Yes	1005.9	0	ALL CALL		
		14	Yes	0	ō	None		
	₹	15	Yes	0	0	None	, *	
		Co Model Po	ger	H	Save as	Contiem no Back		1 Ent

Below is a screen shot of a Tone table and each variable will be reviewed.

#### i. Tone Type

The G1 supports two (2) Tone Types; 2tone and 5tone. Five (5) Tone signaling is more commonly encountered in European applications and will not be reviewed in this document. In almost every application in North America the Tone Type should be set for 2tone.

#### ii. Paging System

The Choices are Motorola, GE, Plectron, Fast Plectron, Reach, Fast Reach or none. Obviously "none" means the Tone Table is not enabled.

### iii. Configuring the Tone Frequencies

By selecting (clicking) on a row in the table the below information is displayed.



#### 1. Tone Settings

Call IDs 1-12 are where the two tone frequencies are entered. Call IDs 13-16 are where the single, "Long", tone frequency is entered. There are two ways to enter a tone frequency.

The first way is to use the frequency tone tables for the Paging System selected. Each Paging System setting has specific tone frequency tables. By clicking on the "+" symbol to the right of the Tone frequency field this table is displayed, below are the Tone frequencies for Motorola Paging Systems. Click on the desired frequency click on "OK" and it will be automatically entered in the Tone field. Dothis for both Tone 1, Tone 2 and for the "Long" tone (if applicable).

		Version R03.06.28	For Cu	Model istomer	If you have any query or service, plea Phone: +817 303 9320 (USA) Fax: +817 886 3424 (USA) Email: sales@unication.com	ase contact
D PPS User Guide	Pager Information Display	SignalingSetting	Motorola			Call ID Capcodes     Setting
PPS System Setting Program Pager with Existing Codeplug File Program Pager with Read Pager Codeplug Data Codeplug Data Dother Voice Pager Clone to G1	Pager Configuration Setting Call Source Text Prompt Setting MDC Contact Book Setting Call ID Capcodes Setting Call ID Capcodes Setting Call ID Capcodes Setting Call ID Capcodes Setting Call ID Capcodes Setting Call ID Capcodes Setting Call ID Capcodes Setting Parameter Setting Parameter Setting Call ID Capcodes Setting Call ID Setting Call	Group 1 30.5 349.0 368.5 389.0 410.8 433.7 457.9 510.5 539.0 Group 5 553.9 584.8 617.4 651.9 688.3 726.8 767.4 810.2 855.5 903.2	Group 2 569.1 600.9 634.5 669.9 707.3 746.8 788.5 832.5 879.0 928.1 Group 6 1122.5 1153.4 1185.2 1217.8 1251.4 1285.8 1321.2 1357.6 1395.0 1433.4	Group 3 288.5 296.5 304.7 313.0 953.7 979.9 1006.9 1034.7 1063.2 1092.4 Group 1 1472.9 1513.5 1555.2 1598.0 1642.0 1642.0 1648.2 1733.7 1781.5 1830.5 1881.0 Ca	Group 4 321.7 339.6 358.6 378.6 399.8 422.1 445.7 470.5 496.8 524.6 0 Group 11 1930.2 1989.0 2043.8 2094.5 2155.6 2212.2 2271.7 2334.6 2401.0 2468.2 Incel	• Function Description 2 Tone, 5 Tone, MDC Call ID setting
		C Write Pager		Bave as	Confirm and Back	End

The second way is to just manually enter the desired frequency.

**NOTE:** If the desired tone frequency is not a frequency associated with the tone tables of the Paging System setting, the programming software may change the entered value to one that is within 0.2% of the desired frequency. You will observe this change after you enter the frequency and then click on another field. For example, refer to the below where for Paging System Motorola a tone of 727.5 is manually entered. As you can see 727.5 is shown. This is not a standard Motorola tone frequency (it is a GE frequency).

G1 PPS - [Vic's G1 20	140110.CP]			- x)
	nication.com	Version R03.06.28	PPS Model         If you have any query or signal           For Customer         • Phone: +817 303 9320 (U           • Participation and the signal	SA) Som
PPS User Guide	A Pager Information Display	Call ID Capcodes Sett	ing / Tone Setting / Table 1 / Call ID 3	Call ID Capcodes     Setting
PPS System Setting	B Pager Configuration Setting	Tone System Setting     Tone Type	2Tone 👻	Function Description     Tana MDC Call
	Call Source Text Prompt Setting	<ul> <li>Paging System</li> </ul>	Motorola	ID setting
	E MDC Contact Book Setting	Call ID Setting		
Program Pager with Existing	E Call ID Capcodes Setting	Tone 1	727.5	
Codeplug File	G1 Channel Parameter Setting	Ione 2     Source Prompt	0 +	
Codeplug Data	G2 Manual Scan Relative Parameter Setting	Alert Tone	By Zone 🗸	
Pager Clone to G1	G3 Scan List Parameter Setting	Backlight	By Zone 🔹	
	H Portfolio Setting	<ul> <li>Storage Voice</li> </ul>	NO	
	OTA Control Setting			
States -	Pager Program Table			
		Write Pager	B Save as Confirm	😫 End

Now, when one goes to enter Tone 2's frequency note below what happens to Tone 1's value, it changed to 726.9 (see below screen shot). This adjusted value is well within the tone frequency generation accuracy of any current paging encoder (e.g.,Zetron) and should not be a problem. However, if one needs to manually enter the frequency 727.5 for another tone pair or Long tone they will have to enter the 726.9 value or the programming software will display a "Tone Frequency Error"

G1 PPS - [Vic's G1 20	0140110.CP]				- X
G	PPS	Version	PPS Model	If you have any query or service, pleas • Phone: +817 303 9320 (USA)	se contact
Unication WWW.U	inication.com	R03.06.28	For Customer	• Fax: +817 886 3424 (USA) • Email: sales@unication.com	About
PPS User Guide	Pager Information Display	Call ID Capcodes Setti	ng / Tone Setting / Tabl	e 1 / Call ID 3	Call ID Capcodes
	Pager	► Tone System Setting			Setting
Setting	Setting	<ul> <li>Tone Type</li> </ul>	2Tone	-	Function Description     Z Tone, 5 Tone, MDC Call
	Call Source Text Prompt Setting	<ul> <li>Paging System</li> </ul>	Motorol	a 👻	ID setting
	E MDC Contact Book Setting	Call ID Setting			
Program Pager	E Call ID Capcodes Setting	Tone 1	726.9	+	
Codeplug File	G1 Channel Parameter Setting	• Tone 2	ol	±	
with Read Pager Codeplug Data	Manual Scan Relative	<ul> <li>Source Prompt</li> </ul>	None	•	
Other Voice	G2 Parameter Setting	Alert Tone	By Zone	•	
to G1	G3 Parameter Setting	Backlight	By Zone	•	
	H Receiving Portfolio Setting	Storage Voice	NO		
	OTA Control Setting				
	Pager Program Table				
		Write Pager	Bave as	Confirm and Back	End End

It is important to note that a Tone Table is not limited to just the tone frequencies of the selected Paging System (e.g., Motorola, GE, etc.), but when doing this it is possible the tone frequency entered may be adjusted. It is this adjusted value that needs to be manually entered for other tone pairs (or Long tones) that use this tone frequency.

#### 2. Source Prompt

Use the Pull Down to select the appropriate Source Prompt (Source Prompts are programmed in another section of the G1 programming software). The benefits of having a Source Prompt are; it is displayed on the G1's display when the paging tones are decoded allowing for easy determination of the paging source and when the voice message is stored it is stored with the Source Label (along with the date and time stamp) allowing for easy retrieval from voice memory.

#### 3. Alert Tone

Use the Pull Down to select the desired alert pattern to be played upon detection of the tone pair or Long tone. There are four (4) Standard and eight (8) Pleasing alert patterns. The Pleasing alert patterns are programmed in another section of the G1 programming software and can be customized.

### 4. Backlight

Use the Pull Down to select the desired backlight, there are seven (7) color choices. The backlight is illuminated upon detection of the tone pair or long tone.

# 5. Storage Voice

Set to "Yes" if the received voice message is to be stored in voice memory.

### b. Extending the Alerting Duration

If the application calls for a page alerting duration in excess of Tone B or Long Tone alert timing (e.g., Plectron's Tone B is only 0.25 seconds and consequently the alert duration would be very short) the G1 can be configured for a number of different alert durations.

The screen shot below shows the settings that need to be configured. In the Zone screen, set the "2 Tone Alert Duration" setting to by "Alert Length". Then, in the "Alert Length setting use the Pull Down and select the desired alerting duration.



**NOTE:** By extending the alert duration it is possible that part of the voice message may not be heard or stored. Verify with System Administrator on the correct value.

# SETTING UP CHANNELS AND ENABLING 2 TONE CODES

#### I. Overview

In the following sections a review of how to configure RF Channels and the enabling 2 Tone paging will be covered.

#### II. RF Channel Configuration

The Channel Parameter Setting tab (G1) is where RF channels are configured. When this tab is selected the following is displayed.

U G1	PPS	R03.06.	28 For	Customer	<ul> <li>Phone: +817</li> <li>Pac: +817</li> <li>Pac: +817</li> <li>Email: sales</li> </ul>	query or service, 303 9338 (USA) 886 3424 (USA) Punication com	please contact	81	1
Dillou	A Paper Internation Dashar	Channel Par	ameter Setting						
TTE System	Bontareno	Channel Lie	Channel Adas	Status	Band Illidh	Frequency	Trave	Tone Table	M
a seri	Calibrate	1	Channel 1	renable of	125.012	110.0125.0012	2004	2 Tone Table 1	
	D Test Prompt	2		Disable	12.5 4942	150.0000 MHz	None	1948	24
	MOC Cortest	3		Disatile	12.5 8942	150 0000 MHz	None	Tiul	74
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	E Box Game	4		Disable	12.5 40-12	150 0000 MHz	None	18,4	14
	E Call 10	5		Deaths	12.0.80-0	150.0000 MHz	None	7848	FR.
Program Pager	Setting	6		Disable	12.5 4942	150.0000 MHz	None	Null	14
Codepting File	G. Peterster	7		Disable	12.5 KH2	150.0000 MHz	None	18.8	14
Program Pager	Contra Co	8		Disable	12.5 4042	150-2000 MHz	Taone	TRUE .	194
Codepilug Data	Gr Paratas	9		Dreatile	12.5 8342	150.0000 MHz	None	NUE	78.
Offer Vote	- Same	10		Disatile	12.5 4942	150.0000 MHz	None	TRUE	74
10.01	G: Person	11		Disatle	12.5 8042	150.0000 MHz	filone .	Nu8	14
1.01	Pacetory	12		Disatle	12.5.4942	150.0000 MHz	Fabrie	18,8	78.
	H Particip	13		Disable	12.5 #942	150.0000 MHz	hione	12,8	14.
	Contraction of the	14		Disatle	12.5 XHz	150 0000 MHz	None	NM .	14
	anting .	15		Disable	12.5 8342	150 0000 MHz	None	1948	19.
	Page Program	16		Disatife	12.5 KHz	150.0000 MHz	Note	1944	74.
	Join Co.	17		Disatile	12.5 4942	150 0000 MHz	Fáone	TAUS	78.
		10		Disatle	12.5 8945	150 0000 MHz	None	7848	18.
		19		Disatle	12.5 kb4z	150.0000 MHz	None	TRUE	10.
		20		Disable	12.5 4040	150.0000 MHz	None	78,48	PR.
		-							
									_

Highlight and select Channel 1 and the below is displayed. If one scrolls down additional settings are viewed (three screen shots are shown below). Each setting will be reviewed in the following sections.



U G1	I PPS	R03.06.28	For Cu	stomer	ptu Nave any lutery t Phone: +817 200 932 Fax: +817 885 342 Email: sales@unicat	CuSA) CuSA)	91	
ere har Guide	A how	Channel Paramet	ter Setting / Char	nnel 1			CDCSS Invert	
	P Page	• Cali 11					· Function Description	
ing states	D Galing	• Cal 12	110				If the transmitted CDCS code does not work by	s
	D Tast Prompt	0.000 (Cel 13)					the G1.	est)
	E MECONNA	• Cal 14					]	
	Conception of the second	• Call 15					1	
rogten fager	F Capcome Sating	• CHE15						
Codeplag File	Gr Personal	+ Channel Signalin	with the setting					
In Read Page complete Data	Gr Deathre	Signaling MOC	Tipe	None				
Other Votes Tager Clane	Beer Lat	Reference MDC	table .	(name	-			
0.61	Ga Pasiting	En	able DE Duty	Priority		None	1	
	H Particle	• Call 1						
	OTACurini	• CH2				*		
	5-dig	• cara				+		
	J Fage Program	• Cat 4					1	
		• Cal 5						
		• Cat 5						
		• Cal7				-		

#### a. Channel Enable

This has to be set for "Yes" in order to proceed.

#### b. Channel Alias

This is an eighteen (18) character entry that will be displayed on the G1's display when this channel is selected or active (when scanning) using the Eight (8) Position Selector Switch (refer to tab H).

#### c. Channel Bandwidth

The choices are 12.5 kHz (narrowband) or 25 kHz (wideband).

#### d. Channel Frequency

The specific channel frequency is entered in this field.

#### e. Squelch Type

The choices are CSQ (Carrier Squelch), CTCSS (PL) or CDCSS (DPL).

#### f. CTCSS Clone

If CTCSS is selected as the Squelch Type then this field is highlighted. The G1 can support up to four (4) different CTCSS Tones and if more than one Tone is desired then enter "Yes". If only one Tone is desired set this to "No".

#### g. CDCSS Code

If CDCSS is selected as the Squelch Type then this field is highlighted and the specific code can be selected using the Pull Down.

#### h. CDCSS Invert

This setting depends on how the transmitter sends the CDCSS code.

#### i. CTCSS Frequency

If CTCSS is selected as the Squelch Type, up to four (4) different CTCSS Tones can be entered in these fields.

#### j. Expander and De-emphasis

These are related to transmitter settings and should be left in their default settings unless a change is necessary.

#### k. Signaling Tone Type

If paging is transmitted on this channel then select 2 Tone or 5 Tone.

#### I. Reference Tone Table

Depending on the signaling selected, its associated Tone Table can be selected. All the Tone Tables configured in Tab F are viewed, select the appropriate one for this channel.

#### m. Call 1-16

#### i. Enable

For the G1 to alert and store a voice message Call 1-16, depending on the number of Call IDs in the Tone Table, must be enabled.

#### ii. Off Duty

This identifies the Calls that will be affected by the On/Off Duty status of the G1.

#### iii. Priority

If a Call is designated as Priority, the G1 will alert regardless of the alert settings set using the Main Menu or set in the H Tab. The desired Priority Alert Tone is selected in the Zone Setting (H) Tab.

#### Note: MDC Settings will not be covered in this document

# ON/OFF DUTY CONTROL IN THE G1 VOICE PAGER

On/Off Duty is a feature of the G1 messaging device and allows for select Call IDs to alert or not to alert depending on the status of the On/Off Duty Menu setting. In the following paragraphs a description on how to configure the G1 for On/Off Duty Control is provided.

### I. Programming the G1 for On/Off Duty Control

One first has to determine which Call IDs are to be affected by the On/Off Duty control. This is easily done in the Channel Parameter Setting (Tab G1, see below screen shot). Click on the "Off Duty" setting associated with the desired Call IDs. Call IDs not selected will not be affected by the On/Off Duty control.

GT PPS - JAS-16400	2011.07						- X
U G1 P	PS Version BD3.06.1	18				Wyne have ery • Phone: +813 • Fax: +813 • Email: sale	Gerry or version, please contact 203 9320 (USA) Bac 3424 (USA) @unication.com
D	A Paper Information	E Channel Parameter 1	Setting / Cha	innel 1			Channel Parameter
Con Carde	Page	<ul> <li>Channel Signaling Tr</li> </ul>	one Setting				- Setting
PES System Setting	B Cardiguration Salting	Gignaling Tone Type	1	2 Tone	•		Function Description Channel Option setting
	D Gal Bouros Tast Prompt Ballion	Reference Tone Tat	ala a	Table 1 (2 Tone)			Constant and a second
	I MIC Contra	Enable	Off Duty	Priority		None	
	E Bank Satiry	• Call 1 2					
Program Pager	F Call D Capcodes	• Call 2				e 1	
Codeplag File	Chemel	• Call 3				14	
A Program Pager	Con Barting	• Call 4				100	
Codeplay Data	G2 Paramatar	• Call 5				6 1	
Pager Clone	Ga Stan List	• Call 6				e l	
	Repeating	· Call 7				22 11	
	H Pottate Setting	· Call B				(R. 1)	
a 200	CTA Control Definition	• Call 9				E D	
Contraction of	Pager Program	• Call 10				6	
	Tab	· Call 11				18 I	
		• Call 12				e i	
		• Call 13					
1. T. 10 TU			6		_	11	•
		( Write Pager		H Bave as	Back		🚆 End

After programming the G1, On/Off Duty status can be changed by accessing the "Function Status" or "Settings" menu settings.

#### II. Using the 8 Position Selector Switch to Select On/Off Duty Status

An alternative to using the Main Menu to select On/Off Duty status is to configure the Selector Switch, similar to the Minitor. The steps are provided below.

Step 1- In Tab B, set the "Default On/Off Duty State" setting to "Off State"

**Step 2**- In Tab G1 create 2 channels (same Frequency) and label, for the purpose of this example, one On Duty and the other Off Duty, see below screen shot.

U G1 P	PS Versio R03.06	n 18				H pos have Phone Fax Email	+817 303 9320 5/ +817 866 3434 (U +817 866 3434 (U	tos, please contact SA) SA) orti	About
15	A reper	Channel I	Parameter Setting						
	Page	· Charmel I	List.						
FFS System Setting	B Configuration Setting	Channel	Channel Allas	Status	Band Width	Frequency	Туре	Tone Table	м
	Cel Source	1	On Duty	Enable	12.5	156.0125	2 Tone	2Tone 1	NL
	D Test Prompt	2	Off Duty	Enable	12.5	156.0125	23 one	2Tone 1	
	MOC Contact	3		Disable	12.5	150.0000	None	Null	N
	Eoux Sering	4		Disable	12.5	150.0000	None	Null	N
	F Califo	5		Oisable	12.5	158.0000	None	Null	N
with Existing	Carling .	6		Disable	12.5	150.0000	None	Hull	
Codeplug File	G: Paramatar	7		Disable	12.5	158.0000	None	PHUE	N
Program Pager with Read Pager	Getting	8		Disable	12.5	158.0000	None	Null	94.
Codeping Data	G2 Paratratat	2		Disable	12.5	150.0000	None	Null	NL
Other Voice Facer Cone	Scan Liet	10		Disable	12.5	150.0000	None	BuH.	NL
10 G1	Ga Parametar	11		Olsable	12.5	158.0000	None	Null	N.
	Resiving	12		Disable	12.5	150.0000	None	Buff	N.
	H Pottsko	13		Disable	12.5	158.0000	None	Null	HL
	I OTA Current	14		Disable	12.5	158.0000	None	NUE	NL
	Setting	15		Disable	12.5	158.0000	None	Null	NL
	Page Pogan	16		Disable	12.5	150.0000	None	Null	H
	Table	17		Disable	12.5	150.0000	None	Nult	NL
		18		Disable	12.5	150.0000	None	Null	H
		19		Disable	12.5	150.0000	None	Null	HL.
		20		Disable	17 %	158.0080	None	Mar.dl.	No.

**Step 3**- In the On Duty channel do not click on the "Off Duty" setting for the desired Call ID.

Step 4- In the Off Duty channel, click the "Off Duty" setting for the desired Call ID.

**Step 5-** In Tab H , for this example, assign Knob 1 to the On Duty Channel and set Knob 2 to the Off Duty Channel per the below screen shot.

Pred During D	U. G1 P	PS Versio mon R03.06	m .,10		H you have any query of service, please contact + thome: +817 303 9321 (USA) + Sec: -817 306 3424 (USA) + Sec: -817 306 3424 (USA) - Sec: -817 306 3424 (USA)
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7 None None None			6	None	None
Note: Not			7	None	None
			1	Hone	Hone

With this configuration when Selector Switch knob is set to position 1 any received message will alert (because the Call ID on this channel did not have the "Off Duty" clicked). In knob position 2, the Call ID on this channel has "Off Duty" selected and since in Step 1 the Default Setting for the G1 was set to "Off State" any messages will be received and stored **without** an alert.

# SCAN LISTS IN THE G1 PAGER

### I. Overview

The G1 supports two (2) types of scan lists and scanning behaviors; Manual Relative Parameter Setting (G2) and Scan List Parameter Setting (G3). In the following sections each will be described.

# II. Manual Relative Parameter Setting (G2)

This scan list works in conjunction with Function Mode settings (refer to tab H) Channel Scan and Free Scan. Both of these Function Modes allow the User to **manually or automatically** increment a list of frequencies or across a frequency band. There are eight (8) scan lists that can be configured and assigned for channel scanning or scanning across a band. Below is a screen shot of such a list and each parameter will be described in detail.

![](_page_26_Picture_5.jpeg)

To enable a scan list set Manual Scan Enable to Yes. Then select in the Scan Mode field either Channel Scan or Free Scan. Each mode is reviewed below.

#### a. Channel Scan

When this Mode is selected the Channel Scan Function Setting is highlighted. In the "Channel Enable List" are the Aliases of all the channels programmed in the pager. Select the desired channels to scan by setting the cursor on the specific channels and clicking on "Add". This will move the selected channel to the "Channel Scan List". Populate the "Channel Scan List" by selecting and adding the desired channels. To delete a channel from the "Channel Scan List" select the channel and click on "Delete".

#### b. Free Scan

When this Mode is selected the Free Scan Function Setting is highlighted. Select the Start, Stop and Default frequency. The Start and Stop frequencies define the band across which the G1 will scan. The Default frequency is the where in the band the G1 begins scanning.

#### c. Manual Scan Option

These settings (see below) apply to both Channel and Free Scan Modes.

G1 PPS - [G1 PAGER	1651					- x
	PPS	R03.06.28	PPS Model For Customer	ff you have any qu • Phone: +817 303 • Fax: +817 886 • Email: sales@u	u <mark>ery or service, pic</mark> 2 9320 (USA) 6 3424 (USA) nication.com	ase contact
PPS System PPS System Setting Program Pager with Existing Comp Dame	A Pager A Deplay B Pagr Conjugation Sating D Call Score Tect Pernet B NOC Contact Book Setting F Call D Capcodes Sation Call Score Call D Canada Conjugation Call Score Call Contact Call Contact	Manual Scan Relative     North Fire Depts     Central Fire Depts     Greene Cnty     Washington Cnty     Washington Cnty     Orly     Default Channel	Parameter Setting / Man Add >> << Delete None	ual Scan 1		Manual Scan Relative Parameter Setting!     Function Description The manual scan channel can operate monitor feature by manually scan to select a channel or frequency. This feature can set a frequency interval or selected channel which user wants to monitor is being detected.
Codeplug Data	G Narual Scan Relative Parameter Scan List Parameter Stating	Free Scan Function St     Start Frequency     Stop Frequency	eting 49.0000 49.0000	0 ÷	(MHz) (MHz)	
	Hecking Pentolic Setting DTA Control Setting	Default Frequency     Manual Scan Option     Busy Channel Option	49.0000 9 Stop	0 (*)	(MHz)	E.
	Pager Program Table	Hang Time     Tuning Step	1 5 K0+E	*	(sec)	
		Band Width	12.5 Kł	tz •	)	• •

#### i. Busy Channel Option

There are three options; Stop, Auto Reset with CSQ and Auto Reset without CSQ.

#### 1. Stop

If selected, the G1 will scan and upon detecting channel activity it will stop scanning.

#### 2. Auto Reset with CSQ

Works with the Hang Time setting and the G1 will stay on an active channel for the duration of the hang time after loss of carrier and then begin scanning.

#### 3. Auto Reset without CSQ

Works with the Hang Time setting and the G1 will stay on an active channel for the duration of the hang time and then begin scanning, **regardless of any channel activity.** 

#### ii. Hang Time

Determines the duration the G1 will stay on the channel if "Auto Reset with CSQ" or "Auto Reset without CSQ" is selected.

#### iii. Tuning Step

Works only in the Free Scan Mode and sets the channel frequency increments.

#### iv. Band Width

Works only in the Free Scan Mode and the choices are 12.5 kHz or 25 kHz band widths.

#### III. Scan List Parameter Setting (G3)

The G1 supports sixteen (16) scan lists that work in conjunction with the Scan Modes (Priority, Normal, Silent and Dual Channel). Each Scan List can be populated with up to eight (8) frequencies programmed in the G1 using the Channel Parameter Setting (G1).

.U. G1	PPS	R03.0	6.28	For Customer	Eyen harr an · Phone: -017 · fax: -017 · Small: sales	Starty of Service. Service (SA)	please contact	81	
	A charmation Chapter	Scan List P	Parameter Set	ting					
TTS System Setting	B Configuration	Scan List	Status	Nember1	Nenter2	Wember3	Namber4	Member5	Mar
	D Test Prompt		Enable	General Pers De	Amoutances	North Free Dept	<ul> <li>South End one</li> </ul>		100
	Owtry	2	LUSADIE	None	None	14004	None	Tione .	1400
	E MOC Carted	2	Lesabe	None	ruone	TROOP	None	ruone	1400
	CODE D		LVSable	None	Fighter 1	None	None	rione	Nepry
Program Pager	F Coprodes	-	Lisadie	None	Teche	14000	None	rione -	1600
Codeplay File	Chairmal		Liceacite	None	regime	140/04	Peome	rearies	repen
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ath fast Paper	Manual Roam		Disable	None	None	None -	None	rione	740m
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9.61	Gg Person	11	Disable	None	tione	None	None	rione	1451
	A Detering	12	Disable	None	None	None	None	None	Non
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	T OTA Chiese	14	Disable	None	None	None	None	tione	1400
	Serve	15	Disable	None	None	None	None	None	Nor
	Contraction Contractor	15	Disable	None	None	None	None	None	1 Filom

The below screen shot displays the parameters programmed for each Scan List and in the following sections each will be described

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UNI COM	A storeator	Scan List Parameter Setting / Scan	i List II		Scan List Parameter
	D Paper	<ul> <li>Scal Lut Setting</li> </ul>			Setting
Satting	D fatig	Gcan List Enable	Yes		Fonction Description     Displays all the channels of
	D Test Prompt	+ Scan List Wender Setting			the scan list. These channels will be
	E MOC Consul	Scatt Channel Member 1	Central Fire Depts	Prorty     Channel	during a scan operation.
	CHO CHE	Scan Channel Member 2	Ambulances		
Program Paper with Extense	Setting	Scan Channel Member 3	North Fire Depts	•	
Program Fager 1	GI Patahanu Betting	Scan Channel Member 4	South Fire Depts		
Compile Date	G2 Seams	Scan Channel Hember 5	None		
Pager Clane to G1	Gg Score Link	Scan Channel Member 8	None		
	H Sectors	Boan Channel Member 7	None	•	
	OTA Current	Scan Channel Member 8	None	•	
	Page Program	Scan List Option			
	tan.	Europ Channel Option	Auto Reset with CS	9 <del>•</del>	
		Hang Time	3	9 (sec)	
		Philothy Channel Check Interval	750.0	(maac)	
			_		

#### a. Scan List Enable

This must be set to "Yes" in order to be enabled.

#### b. Scan Channel Member 1-8

Up to eight (8) channels can be selected using the pull down arrow at the right of the frequency field. The choices shown reflect the Aliases assigned to each channel in the Channel Parameter Setting (G1).

The first channel assigned is where the automatic scanning process begins. In the Priority Scan Mode, this channel is the one the G1 will periodically scan back to check for activity.

#### c. Busy Channel Option

There are three options; Stop, Auto Reset with CSQ and Auto Reset without CSQ.

#### i. Stop

If selected, the G1 will scan and upon detecting channel activity it will stop scanning.

#### ii. Auto Reset with CSQ

Works with the Hang Time setting and the G1 will stay on an active channel for the duration of the hang time after loss of carrier and then begin scanning.

#### iii. Auto Reset without CSQ

Works with the Hang Time setting and the G1 will stay on an active channel for the duration of the hang time and then begin scanning, **regardless of any channel activity.** 

#### iv. Hang Time

Determines the duration the G1 will stay on the channel if "Auto Reset with CSQ" or "Auto Reset without CSQ" is selected.

#### v. Priority Channel Check Interval

Determines how frequently the G1 scans back to the Priority Channel when the G1 is set for Priority Scan Mode. To ensure that a 2 tone page is not missed on the Priority Channel this interval should be set short (less than 875ms if the 2 tone timing is 1 second for Tone A). However, setting this interval too short reduces significantly the intelligibility of messages received on the non-priority channels.

# **CONFIGURING ZONES AND SELECTOR SWITCH POSITIONS**

The G1 supports eight (8) Zones with each Zone having eight (8) position selector switch settings. The "H" tab (Receiving Portfolio Setting) is where the Zone and the zone's Selector Switch settings are made. In the following sections a review of Zone and Selector Switch settings are provided.

#### I. Zone

In the "H" tab the top table shows the Zones and the bottom tables shows the Function Switch List (Selector Switch) settings for the selected Zone.

GTPPS operate 148	TEARCOMPACE!					- x
Unertin G1	PPS	Version R03.06.28	PPS Model For Customer	You have any query or     Protect 417 203 9220     Protect 417 203 9220     Protect 417 203 9220     Protect 4117 204 9242     Email: sales@unication	Mervice, please contact	8) 🔝
Dian	A Stormation Display	E Receiving Portfolio 5	etting / Zone and Knob L	iat.		
ITS System Sectory	B Derfiguation	Zone Lat Zone	Status	2	Zone Name	
	Call Source Task Prompt Satisting	2	Disable		Zone 1 Zone 2	
	E MOC Contact Book Sating	3 4	Disable		Zone 3 Zone 4	
Program Program	Call D Depender	5 Disable			Zone 5	
Codeplay File	Gt Parameter	7	Disable		Zone 7	
ath Read Pager Codeplug Data	Gr Hanai ficen Heistive Fasting	-	UC4404	, 	2 one s	
Rage Cone	Go Paramatar Batting	<ul> <li>Function Switch List</li> <li>Knob</li> </ul>	Functio	n Mode	Raference Into	
1.1	Thereiting	1.	Series.	e Call	Channel 1	
1. State 1.	Conting .	2	None		None	
	OTA-Control	3	None		None	
	Carlo and a	4	Note		None	
	J Pager Program	5	None		None	
		6	24008		None	
		7	None		None	
		8	None		None	
1.2 2.10						
		Write Pager	Ha Seve av			# Ent

![](_page_32_Picture_0.jpeg)

By selecting and clicking on a Zone the below screen is displayed. Each setting is described below.

# a. Zone Enable

For a Zone to be active it has to be enabled.

#### **b.** Zone Name

Each Zone can have an eighteen (18) character identifier. This identifier is displayed on the G1's display in the Zone settings to allow for ease of selection.

#### C. Alert Length

This setting works in conjunction with the "2 Tone Alert Duration" setting and provides for a fixed alert duration (i.e., not dependent on the duration of Tone B). There are eight (8) choices ranging from a chirp up to 30 seconds.

# **d.** Voice Message Alert

This is the default setting for all 2 tone pages. The alert setting selected in the "Call ID Capcodes Setting" will supersede this selection.

### **e.** Text Message Alert

This is the default setting for MDC or GSM text messages.

# **f.** Priority Message Alert

If a Call ID has been identified as a Priority (refer to "Channel Parameter Setting") this will be its alert regardless of what was selected in the "Call ID Capcodes Setting".

# g. Clock Alarm Alert

This is the default alert for the Clock Alarm.

# h. Message Alarm Alert

This is the default alert for message reminder alerts (if enabled in the "Pager Configuration Setting").

# i. 2 Tone Alert Duration

Determines if the 2 tone message alert duration follows Tone B or is a pre-defined length.

# j. 5 Tone/ MDC Alert Duration

This setting determines the alert duration for 5 Tone or MDC pages. A variety of options fewer than 1 second are available or for longer alerts the "Alert Length" setting can be selected.

# k. Voice Message Backlight

This is the default backlight setting for voice messages. The backlight settings made in the "Call ID Capcodes Setting" will supersede this selection.

# I. Text Message Backlight

This is the default setting for MDC or GSM text messages.

#### **m.** Priority Message Backlight

If a Call ID has been identified as a Priority (refer to "Channel Parameter Setting) this will be its backlight regardless of what was selected in the "Call ID Capcodes Setting".

#### n. Default Backlight

This configures the backlight for all Menu operations for this Zone.

#### II. Function Switch List

There are eight (8) Selector Switch positions that can be configured. The below screen shot displays the settings available for each switch position.

Universities G1	PPS	R03.06.28 For Cus	tomer	any query or servi 617 303 9320 (USA) 617 886 3424 (USA) ales@unication.com	ce, please contact
PPS Uner Guide	A Information	Receiving Portfolio Setting / Zone	Receiving Portfolio		
	Pager	► Kaob Function Setting			Setting
Program Pager     with Existing     Caleving File     Program Pager     with Existing     Caleving File     Program Pager     Caleving Tale     Caleving Tale     Caleving Tale     Caleving Tale     Caleving Tale     Caleving Tale     To G1	Call Bourse D Call Bourse D Teat Prompt Berring	Function Mode	Selective Call		Function Description     Knob are used in the Zone
		Reference Info	152.750 w/PL	•	to conveniently organize Function Mode in the pager
	E NDC Cortect Book Setting	Dual Channel Scan Mode	Normal Scan		
	Charlos Creators Entrop Charnel Pasametar Satorp Monut Scan Baston	Signal Detect Wait Time	0.0	(ms)	
		Reset Mode	Detay NAuto	•	
		Delay Timer	4.0	(sec)	
	G2 Pargmater Satting	► Knob Option Setting			
	Ga Parameter Betting	Push To Listen	NO	•	
	H Portiolo	• Privacy	NO	-	
	OTA Control Setting	Voice Storage	Yes	•	
	J Pager Program	Request for CTCSS / CDCSS	Yes	•	
		Signaling Squeich	AND		
		Alert Mode	Tone and Vibrate	•	
			_		

#### **a.** Function Mode

There are eight (8) Functions Modes available in the G1.

- i. Selective Call- Used when one wants to the pager to alert upon receipt of a valid 2 tone message.
- ii. **Monitor Mode** Allows monitoring of the selected channel and the G1 will alert upon receiving a valid 2 tone message.
- iii. Normal Scan Works in concert with Scan List Parameter Setting (G3) to allow automatic scanning of up to eight channels. The G1 will un-squelch upon detection of signal on a channel .Upon loss of signal the G1 will begin scanning the other channels in the Scan List.

iv. Priority Scan- Works in concert with Scan List Parameter Setting (G3) to allow automatic scanning of up to eight channels. The G1 will un-squelch upon detection of signal on a channel, but will periodically scan back to the "Priority Channel" checking for signal. If no Priority Channel activity is detected the G1 will continue to play audio until loss of signal on the non-Priority channel. Upon loss of signal the G1 will begin scanning the other non-priority channels in the Scan List.

There is a Priority Channel Check Interval setting in the Scan List Parameter Settings (G3) that can be adjusted for improved, non-priority channel, intelligibility. The setting can be made larger; however too large a time could mean a 2 tome message on the Priority Channel may be missed or not stored.

- v. Silent Scan Works in concert with Scan List Parameter Setting (G3) to allow automatic scanning of up to eight channels. The G1 will un-squelch only upon detection of a valid 2 tone message. Upon loss of signal the G1 will begin scanning the other channels in the Scan List. The assumption is that only paging channels are assigned to the Scan List associated with this Function Mode.
- vi. **Dual Channel Scan** This Mode allows for Priority or Normal scanning of 2 channels. It also works in concert with Scan List Parameter Setting (G3).
- vii. **Channel Scan** A feature unique to the G1 that works in concert with the Manual Scan Relative Parameter Setting (G2). It allows manual monitoring of any of the channels selected in the Channel Scan List. Up to 64 channels can be monitored.
- viii. Free Scan- A feature unique to the G1 that works in concert with the Manual Scan Relative Parameter Setting (G2). It allows the manual selection of channels across a frequency band. Channel bandwidth increments are selectable in the Manual Scan Relative Parameter Setting (G2).

# **b.** Reference Info

The pull down allows the selection of all frequencies (by Channel Alias) programmed in the "Channel Parameter Setting" tab (G1), and the scan lists from the G2 and G3 tabs. Individual frequencies are selected for Selective Call and Monitor Function Modes. Scan Lists are selected for Priority, Normal, Dual Channel, Free and Channel Scan Function Modes.

**NOTE:** When assigning a scan list to Silent Scan Function Mode all channels in this scan list MUST be assigned 2 Tone IDs or a "Call Error" message will be displayed.

# C. Dual Channel Scan Mode

This is only highlighted if Dual Channel is the Function Mode selection. The options are Priority or Normal which are identical to the behaviors described in the Function Mode section.

# d. Signal Detect Wait Time

This is only highlighted in the Silent Scan Function Mode and it sets the wait time on a channel (125ms is recommended).

#### e. Reset Mode

- Automatic With this setting any loss of carrier less than 500ms ensures the pager will stay active and store the received message. If the loss of carrier exceeds 500ms, then Delayed N Auto, Delayed N Revert or Timeout would be the preferred choice.
- ii. Delay N Auto Works in concert with the Delay Timer setting to ensure the G1 stays active and records the incoming voice message. If this mode is chosen for the Selective Call Function mode, once the voice message is recorded the G1 goes back to standby awaiting the next valid 2 tone message. If chosen for the Monitor and Scan Function Modes, the pager will stay active for the Delay Timer set value and then resume either monitoring the channel or scanning channels.
- iii. Revert If selected with either the Selective Call or Silent Scan Mode, the G1 will automatically begin monitoring the channel upon receipt of a voice page. If the received voice message is to be stored, use this selection only if the loss of carrier during the page does not exceed 500ms.
- iv. Time Out Sets the duration the G1 will stay active and store messages. It is possible with this setting that the G1 will go into the Standby mode before the voice message is completed.
- v. Manual The G1 will continue to record until the Reset keybutton is depressed.
- vi. Delay N Revert Works in concert with the Delay Timer setting to ensure the G1 stays active and records the incoming voice message. This is only available for the Selective Call and Silent Scan Function Modes and upon loss of carrier the G1 begins monitoring the channel.
- vii. None-Default setting only.

# f. Delay Timer

This setting works with Delayed Auto, Delayed N and Time Out Reset Modes. The value selected ensures the G1 stays active and continues to store the 2 Tone voice message.

#### NOTE: If a voice message is not being stored the selected N value may be too small.

#### g. Push To Listen

When Function Mode is set to Selective Call or Silent Scan Mode and Push to Listen is set to "Yes" then upon receiving a paging message the G1 will alert, but only play the voice message upon depressing the RESET KEY.

# h. Privacy

When Function Mode is set to Selective Call or Silent Scan Mode and Privacy is set to "Yes" monitoring the channel is prohibited when depressing the RESET KEY.

# i. Voice Storage

This setting has to be set to "Yes" for the 2 Tone voice message to be stored.

# j. Request for CTCSS / CDCSS

If set to "Yes", the G1 expects to detect the CTCSS or CDCSS settings for the channels or Scan Lists chosen with the Reference Info setting.

# **k.** Signaling Squelch

This setting works in concert with the Request for CTCSS/CDCSS setting. The normal setting is "AND" meaning CTCSS/CDCSS is required on channels configured for CTCSS/CDCSS. The "OR" setting allows 2/5 tone message detection with or without CTCSS/CDCSS tones/codes being transmitted on the channel(s).

# I. Alert Mode

This setting determines the alert mode for the Selector Switch knob setting. There are five (5) choices.