UNICATION G4 WHITE PAPERS
A Simplified Programming Guide

Unication

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Thank you for purchasing the Unication G4 Voice Pager. This document is meant to assist you in creating a G4 Profile from scratch. At any time during this process if you have questions or require additional assistance please contact us at 817-303-9320 and select Option 1: P25 Support.

TABLE OF CONTENTS

LOADING THE PAGER PROGRAMMING SOFTWARE

I.   The first thing that we encounter when opening the G4 PPS is the login screen. The username is admin, the password is also admin.

II.   When the PPS opens we find ourselves on the welcome page. From this page we can perform a "quick program" using the latest programmed files. However in this document we are focusing on creating a profile from scratch. So we need to select **Tab C**

III. After selecting Tab C we are presented 3 sub options C1, C2, and C3. C1 is Create New Profile this option should be selected when crating a profile from scratch. C3 is used when your G4/G5 has a file preprogrammed in it. We will be selecting **Tab C1.**

IV. Once Tab C1 is selected you must then choose the model of your unit. You will have 3 choices 700/800, 700/800 + VHF, 700/800 + UHF. Your selection will be based on which unit you have.

V. Once you select your model number you will be presented with the main programming screen of the PPS.

I. Tab 1 displays your file information, the User Group Name will be the name of the file when you go into Tab D to edit the file later on.

TAB 2- FREQUENCY & SYSTEM SETTINGS

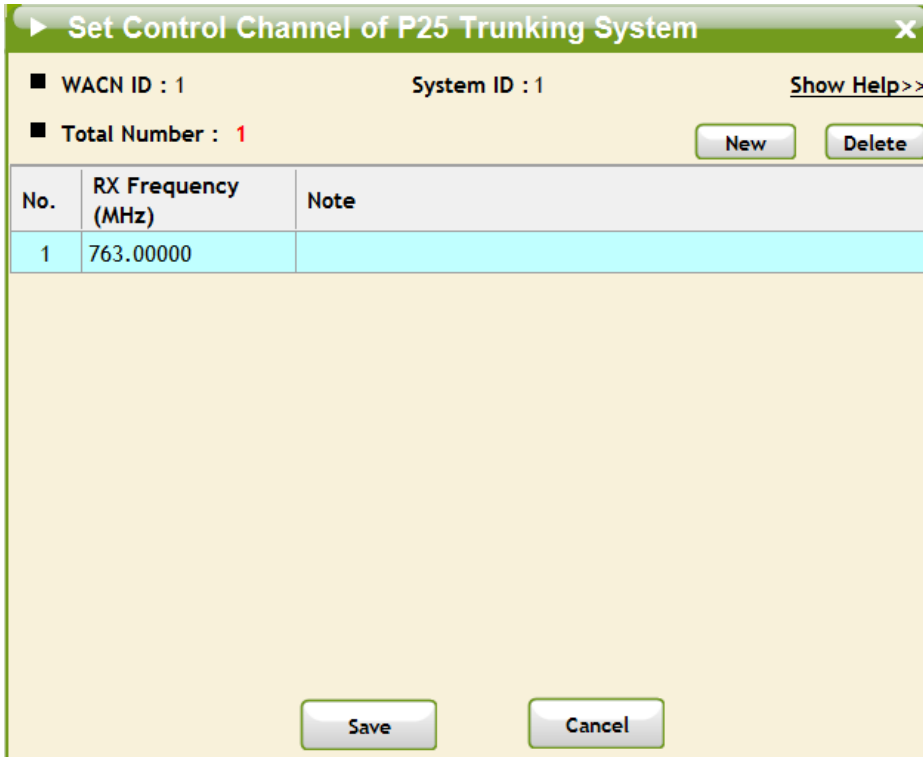I. Tab 2 is where you enter all frequencies and build your P25 trunking system.

II.   To build your P25 trunking system you must select the grey tab at the top that says P25 Trunking System Setting. The information that you will need is the systems WACN ID, The System ID, the RFSS ID and Site ID's for each site along with the control channels for those sites. This information should be obtained through your system admin.
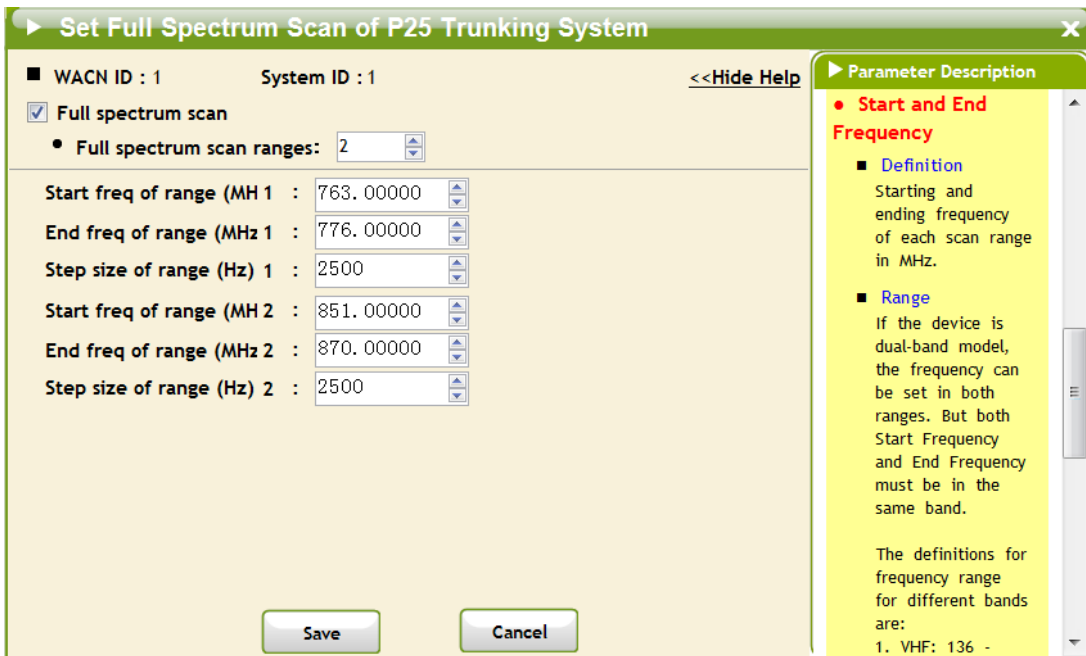

III.   To add Sites you will need to left click on **Site: 1** and enter the RFSS and Site ID's.
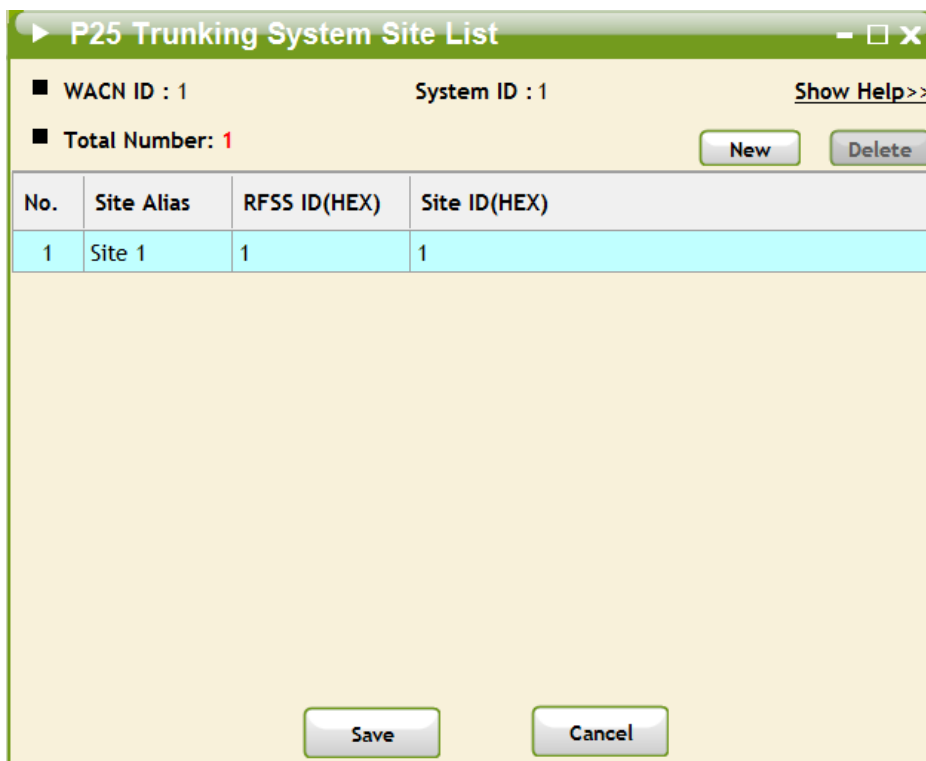
IV.   Adding control channels is a similar process Left Click on **Control CH: 1** and add the pertinent information.

Set Control Channel of P25 Trunking System

■ WACN ID : 1   System ID : 1   Show Help>>

■ Total Number : 1   [New]   [Delete]

No.	RX Frequency (MHz)	Note
1	763.00000	

[Save]   [Cancel]

V.   Full spectrum scan is another feature that can be enabled here. In order for the unit to scan both the 700 and 800 band the full spectrum scan must be setup in this manner.

Set Full Spectrum Scan of P25 Trunking System

■ WACN ID : 1   System ID : 1   <<Hide Help

☑ Full spectrum scan

● Full spectrum scan ranges: 2

Start freq of range (MH 1 : 763. 00000
End freq of range (MHz 1 : 776. 00000
Step size of range (Hz) 1 : 2500
Start freq of range (MH 2 : 851. 00000
End freq of range (MHz 2 : 870. 00000
Step size of range (Hz) 2 : 2500

[Save]   [Cancel]

▶ Parameter Description

● **Start and End Frequency**

■ Definition
Starting and ending frequency of each scan range in MHz.

■ Range
If the device is dual-band model, the frequency can be set in both ranges. But both Start Frequency and End Frequency must be in the same band.

The definitions for frequency range for different bands are:
1. VHF: 136 -

VI.   Once your Trunking system is built and your conventional frequencies have been entered, then we can move on to Tab 3 to setup our protocols.

TAB 3- PROTOCOL PARAMETER SETTING

I.   Tab 3 is where we will setup our protocols. The G4 supports many different protocols as you can see below. For this explanation I will be adding P25T and 2-Tone.

II.   When adding 2-Tone you will need to select which tone table to use. I will be selecting the Motorola tone table because it is the most widely used.
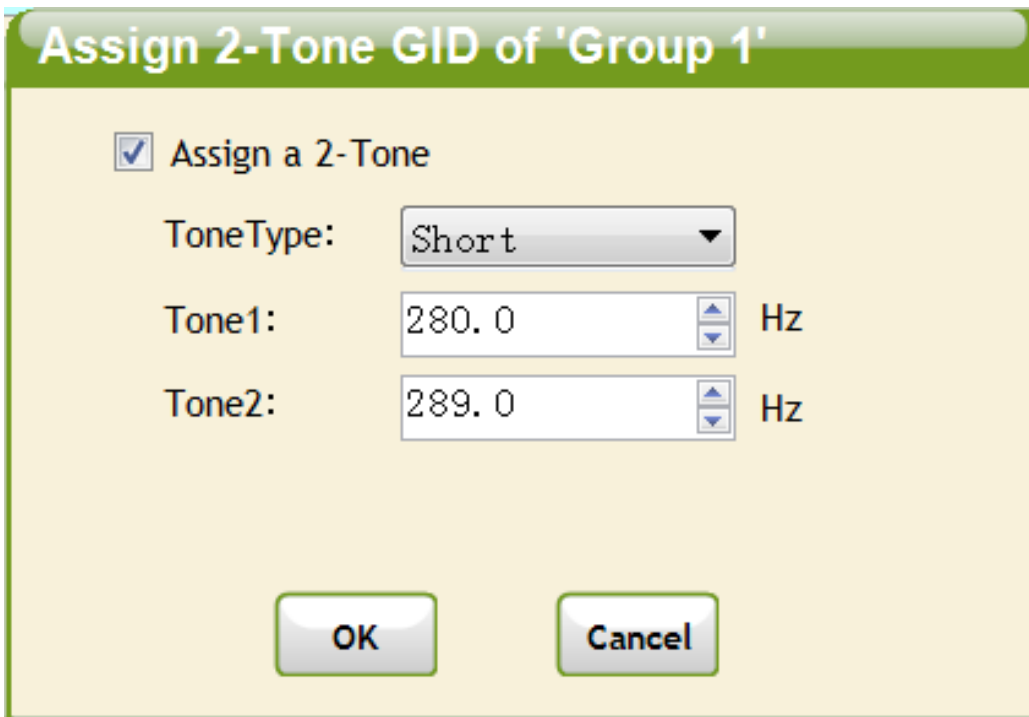

III.   Upon selecting all of the parameters you're planning on using we will move on to Tab 4 which is the Group Id settings.

TAB 4- GROUP ID SETTING

I.   Tab 4 which is where you will set up your Group Id Settings.

II.   First we will add our 2-Tone pair by clicking on the No setting option under 2-Tone.

III. Next we will add a Paging TGID so that we can be alerted over the P25 Trunking system.
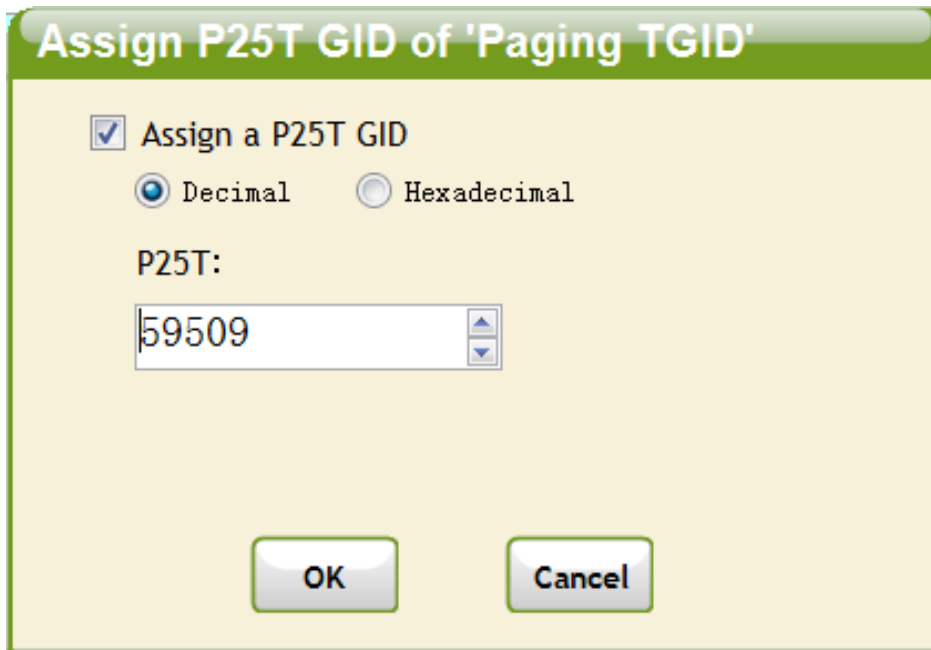
IV. After adding all of my TGID's this is what it looks like.

V.   As you can see I have alert tones enabled on the 2-Tone, and the Paging TGID. I do not have alert
        tones assigned to my TAC channels because if I did the unit would alert every time there is traffic on
        that TGID.

        The G4/G5 can also use custom alert tones via the Custom Tone Setting Menu.

TAB 5- ZONE & CHANNEL SPACING

I. Tab 5 is where we will set up our function knobs.

II. We will now setup our Function Knobs. Double click on Zone 1 Knob Position 1.
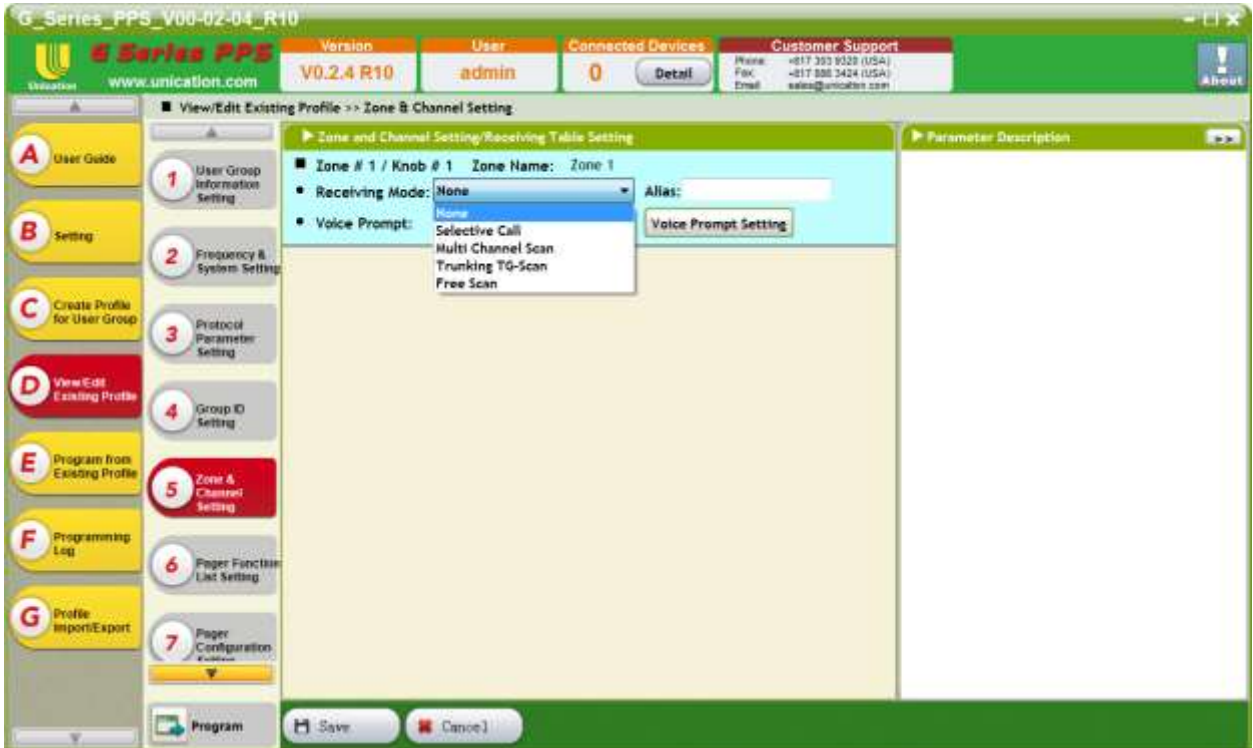
III. We will setup 2-Tone first by selecting selective call…

IV. We will go ahead and use 763.00000 as our conventional frequency. We will also select 2-Tone as our protocol.

V. You can add CTCSS or CDCSS to this knob position from here. I have also assigned a 2-Tone pair to this channel knob. Now I will discuss Unmute Logic, If it is set to Match ID the pager will only open Squelch when the 2-Tone pair is received. If it's set to Match ID OR Squelch the unit will open squelch when there is traffic on the channel.

VI. We will now save this Knob position…
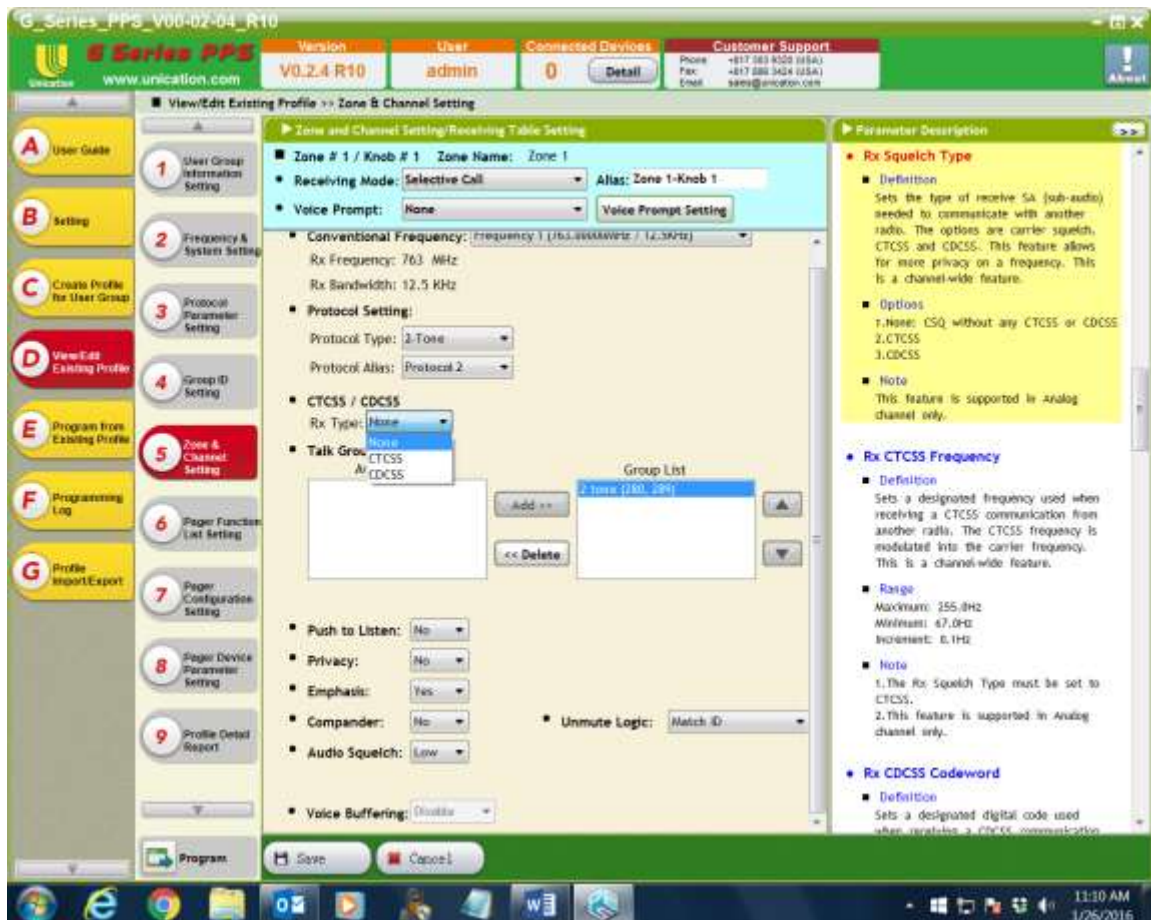
VII.   We will now setup our P25 Trunking system on knob 2.

VIII.   Adding TGID's to the Knob Position is simple just select it and click Add.
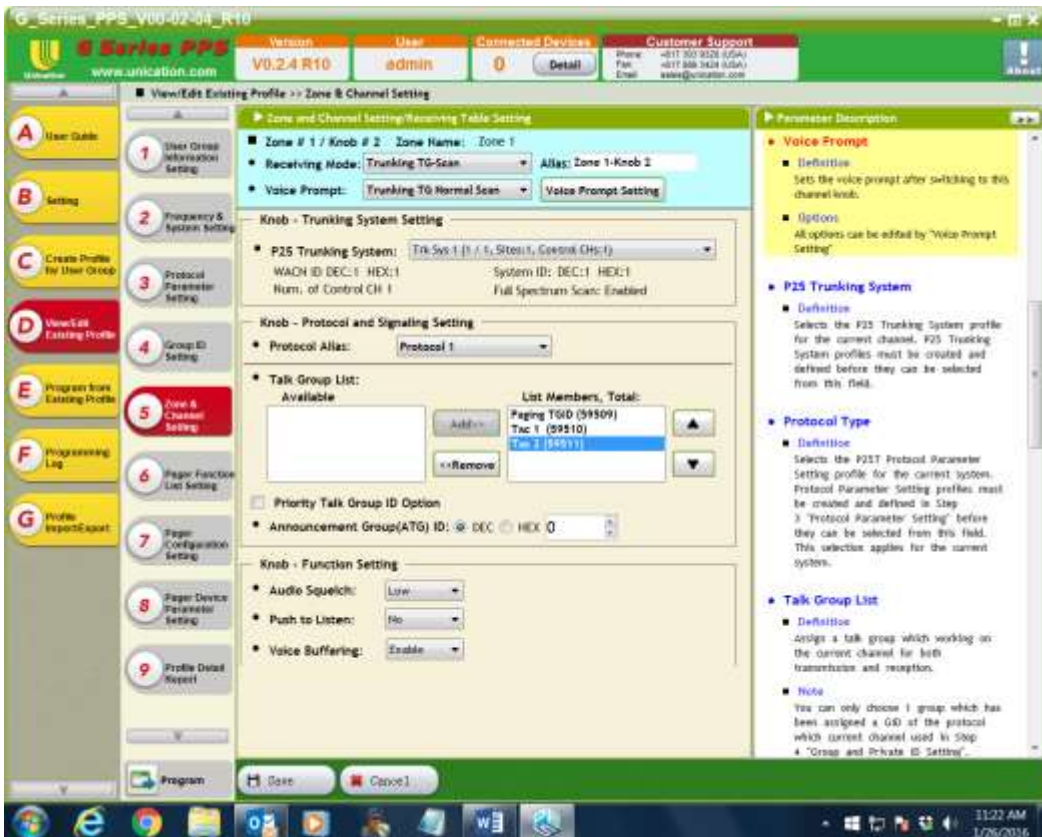
IX. Priority can be enabled at this time, The TGID that is added first will be the priority. It is the TGID on the top of the list. We will now save this knob position.
Setting up a conventional multi channel scan is handled in this manner.

X. Each channel you wish to scan must be setup on its own position Knob first, then it will be selectable in that setting. You can have Analog conventional and P25C channels in the same scan list.

XI. The Unmute Logic on a Multichannel scan must be set to Match ID in order for the PL tones to work.

TAB 6-PAGER FUNCTION SETTING

I.   Moving on to Tab 6, This is where you enable and disable some of the functions in the pagers menu.

TAB 7- PAGER CONFIGURATION SETTING

I. Tab 7 is where the display configuration settings are located

II.   The Main feature I want to touch on is the Home Screen configuration.
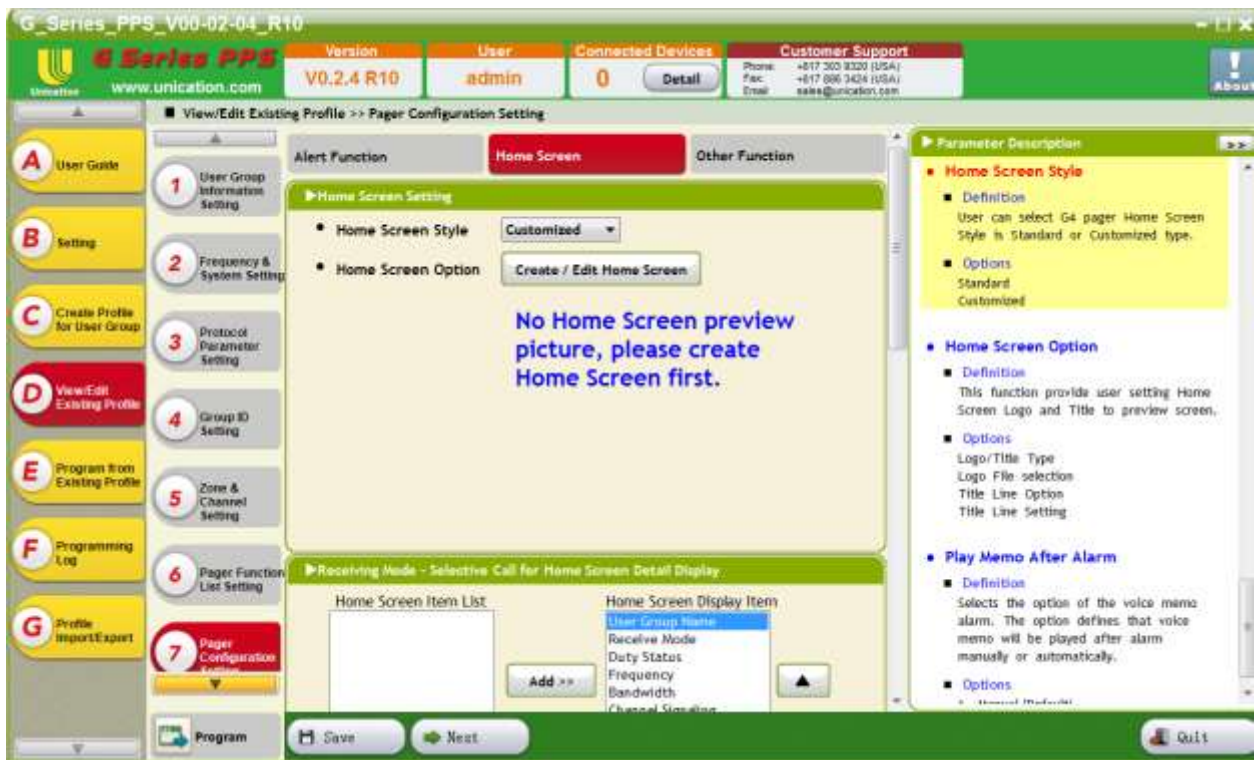
III.   This tab allows you to customize your Home Screen with .jpeg files.
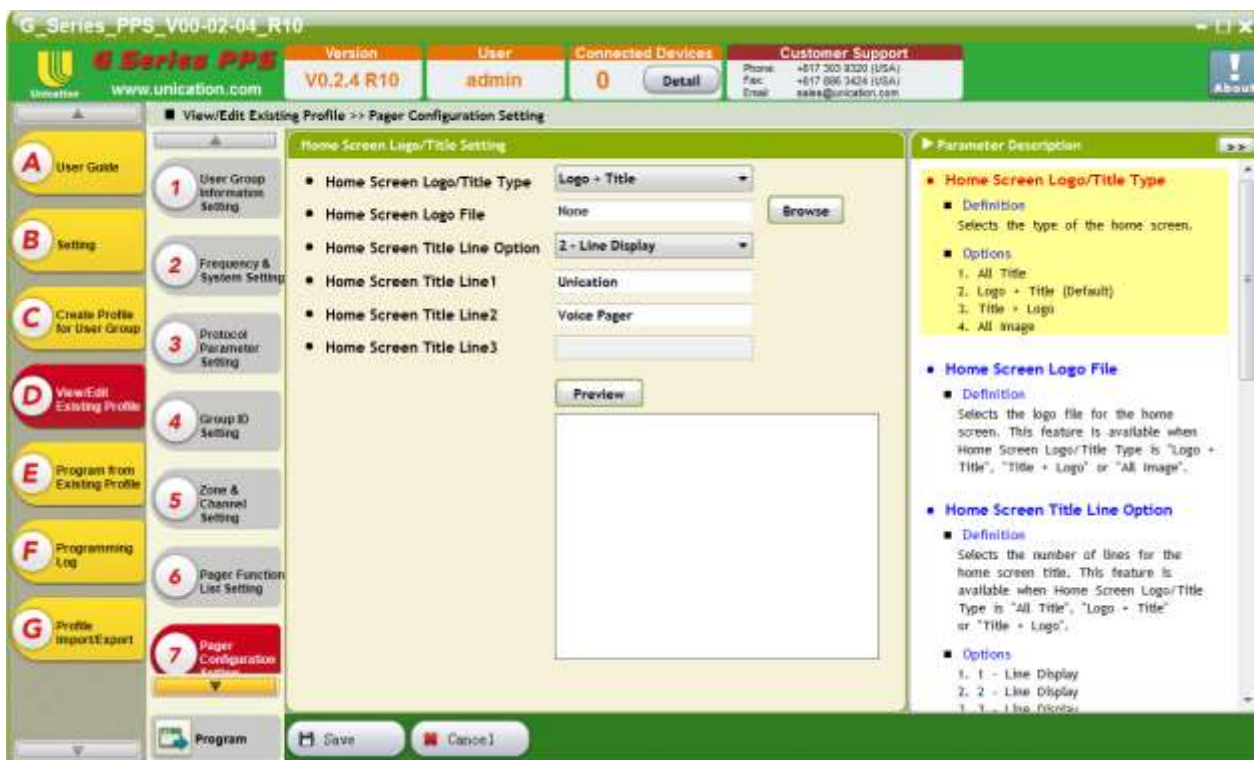
IV. Below shows a fully Customized Homescreen. This feature really allows you to Personalize the unit to your Department or your system or even the individual Fireman.
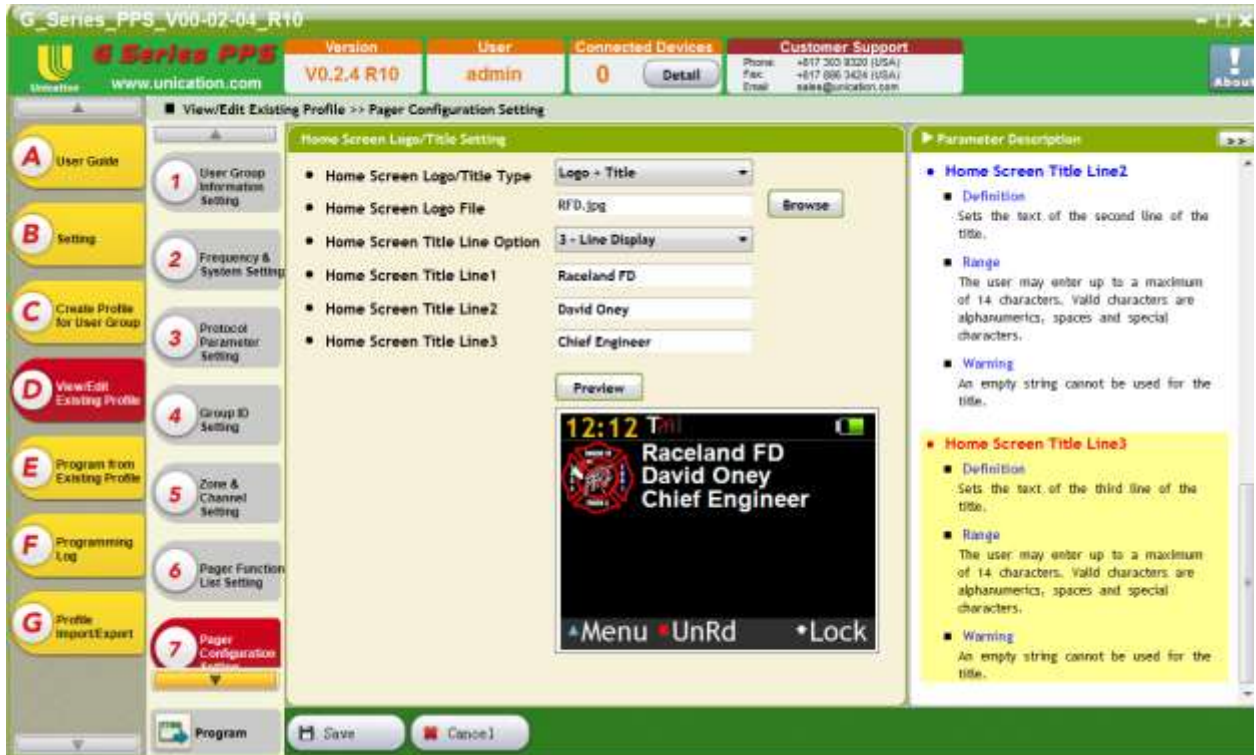
TAB 8- PAGER DEVICE PARAMETER SETTING

I. Tab 8 allows you to adjust the Backlight Settings, Alert Tone Volume, and the Standby LED setting.

TAB 9- PROFILE DETAIL REPORT

I.   Tab 9 shows you a detailed report of everything that you have programmed into the file.

CONNECTING THE USB TO PROGRAM THE DEVICE

I.   Last thing we need to do is program the unit. So, connect the unit to the PC with the supplied USB
cable and select Program at the bottom of the page. You should show 1 Connected device at the top.
At this time click the rounded program button on the PPS

II.   The PPS will display this window.

III.   When you receive this message…
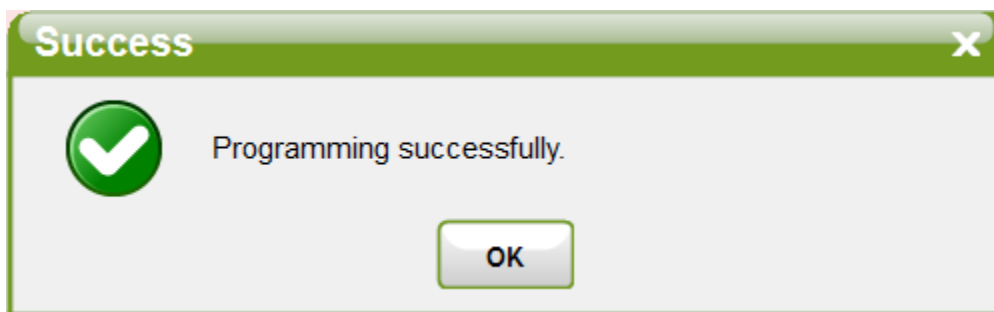
I.   The unit has been sucessfully programmed and will reboot itself. It is then safe to remove the USB cable.

Unication USA, Inc.